

GRADE 9+

Extended Programme

MATHEMATICS

Practice Paper 1

1 Hour

Read these instructions first

- Write your name in the space provided below.
- Use black or blue ink.
- HB pencils may be used for the diagrams / sketches only.
- Do not use correction fluid.
- Read each question carefully.
- All answers must be written in the spaces provided.
- Answer all questions.
- Any rough working should be done in this booklet.
- Each question carries 1 mark.
- The total number of marks for this paper is 40 marks.

Name of student :

ANSWER ALL QUESTIONS

1. Write in figures **two hundred and thirty five.**

Answer:

2. Work out

$$\begin{array}{r} 1023 \\ + 745 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \hline \\ \hline \end{array}$$

Answer:

3. Arrange the numbers 10, 50, 200, 100, 150 in order starting with the **largest.**

Answer:

4. Simplify $5a + 15a$

Answer:

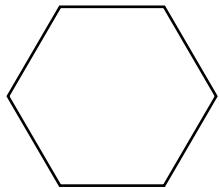
5. What is the order of matrix $A = \begin{pmatrix} 1 & -2 \\ 0 & 3 \end{pmatrix}$?

Answer:

6. Convert 2 hours into minutes

Answer:

7. Name the polygon shown below.



Answer:

8. Calculate 10 % of Rs 500

Answer:

9. Evaluate 3^2

Answer:

10. Simplify the ratio 10 : 40

Answer:

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

11. 101

 x 5

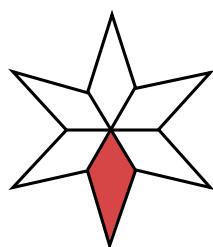
A 550

B 505

C 106

D 105

12. What fraction of the diagram is shaded?



A $\frac{5}{6}$

B $\frac{2}{6}$

C $\frac{1}{6}$

D $\frac{1}{12}$

13. Which one of the following is a prime number?

A 9

B 6

C 4

D 3

14. A multiple of 3 is

A 9

B 10

C 11

D 14

15. $\sqrt[3]{27}$ is

- A 9
 - B 4
 - C 3
 - D 2
-

16. 0.247 correct to 2 decimal places is

- A 0.20
 - B 0.24
 - C 0.25
 - D 0.28
-

17. 42 expressed to the nearest 10 is

- A 40
 - B 50
 - C 55
 - D 60
-

18. What type of angle is 55° ?

- A reflex
 - B straight
 - C obtuse
 - D acute
-

19. On which days were the same number of apples sold?

- A Monday and Friday
- B Thursday and Friday
- C Tuesday and Thursday
- D Monday and Wednesday

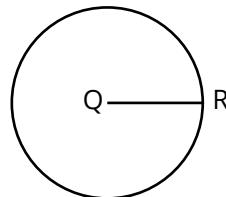
Day	Number of apples sold
Monday	6
Tuesday	3
Wednesday	7
Thursday	2
Friday	6
Saturday	10
Sunday	

Key:  = 2 apples

20. State the mode of the numbers 8, 3, 2, 3, 8, 3

- A 2
 - B 3
 - C 8
 - D 27
-

21. Q is the centre of the circle. QR is called the of the circle.



Answer:

22. Solve the equation $4x = 12$

Answer:

23. Factorise $b^2 - 3b$

Answer:

24. Evaluate $\frac{3}{8} + \frac{2}{8}$

Answer:

25. Find the value of $\sqrt{49}$

Answer:

26. Find the L.C.M. of 12 and 18

Answer:

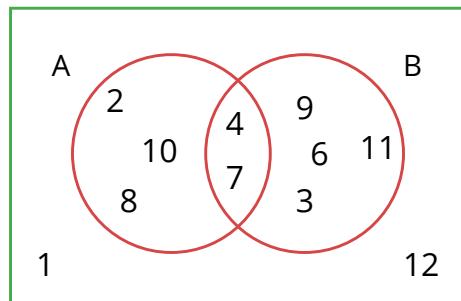
27. Six pencils cost Rs 36. What is the cost of 1 pencil?

Answer:

28. The 17th of February was a Sunday. On which day was the 26th of February in the same year?

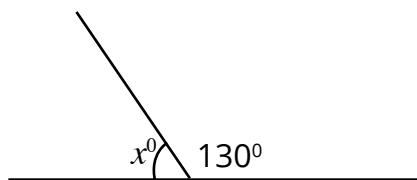
Answer:

29. From the Venn diagram find $n(A \cap B)$



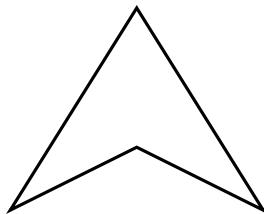
Answer:

30. Find the unknown angle.



Answer: $x^{\circ} = \dots$

31. Draw the line(s) of symmetry of the given shape.



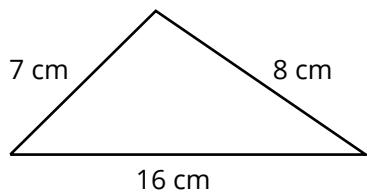
32. The temperature in Paris is 6°C and the temperature in Port Louis is 24°C .
What is the difference between the temperatures in Paris and Port Louis?

Answer: \dots

33. A fair coin is tossed. What is the probability of obtaining a tail?

Answer: \dots

34. Find the perimeter of the following triangle.



Answer:

35. What is the name of the following 3-D shape?



Answer:

36. Find the missing number

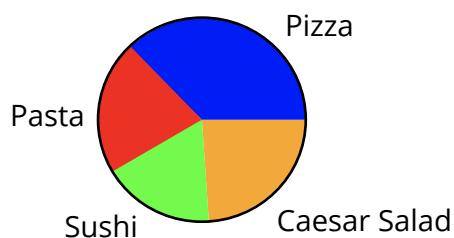
$$50 \times \boxed{\quad} + 20 = 170$$

Answer:

37. Find the mean of 8, 12, 11 and 9.

Answer:

38. The following pie chart shows favourite foods preferred by students in a class.
Name the food preferred by most students.

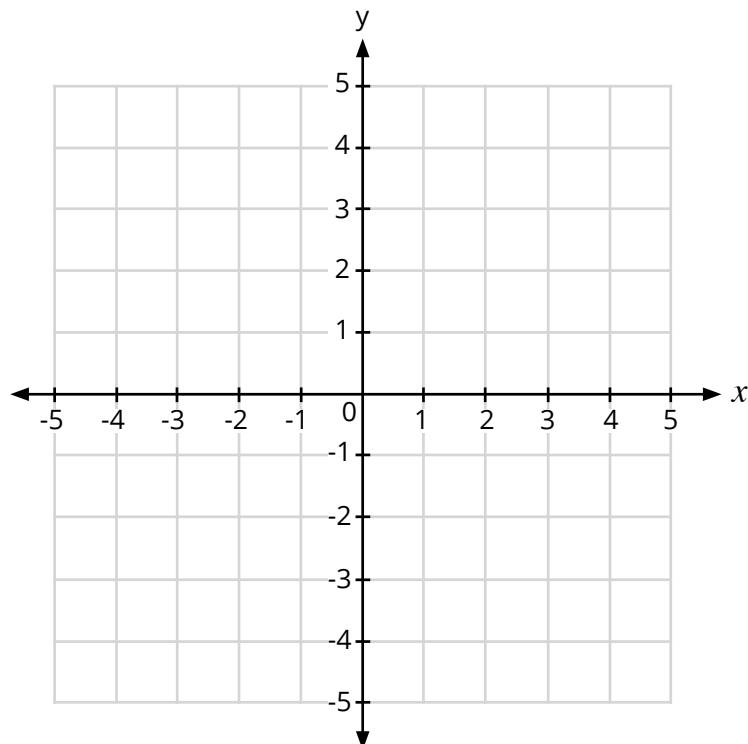


Answer:

39. Expand $-3(x - 5)$

Answer:

40. Plot the coordinates of the point A (2, 4) in the Cartesian plane given below.



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MATHEMATICS

Practice Paper 2

1 Hour

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- Answer all questions.
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- The total number of marks for this paper is 40 marks.

Name of student :

ANSWER ALL QUESTIONS.

1. Write 123 in words.

Answer:

2. Work out 1428

$$\begin{array}{r} 1428 \\ - 321 \\ \hline \end{array}$$

$$\begin{array}{r} 1107 \\ - 321 \\ \hline \end{array}$$

Answer:

3. Evaluate $\frac{3}{5} \times 45$

Answer:

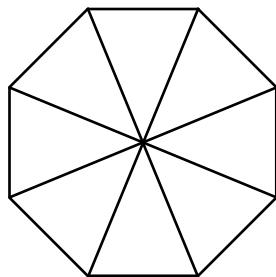
4. Arrange the numbers 15, 20, 5, 10, 25 in **ascending order**.

Answer:

5. Find the value of $7 + (2 \times 3)$

Answer:

6. Shade $\frac{3}{8}$ of the given diagram.



-
7. Simplify $3a + 7a - 8a$

Answer:

8. Simplify $x^5 \times x^7$

Answer:

9. Expand the following $-4(x - 3)$

Answer:

10. Solve the following equation:

$$x + 7 = -3$$

Answer:

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

11. $66 \div 6 =$

- A 392
 - B 72
 - C 60
 - D 11
-

12. Express 0.017 as a fraction.

A $\frac{17}{10}$

B $\frac{17}{100}$

C $\frac{17}{1000}$

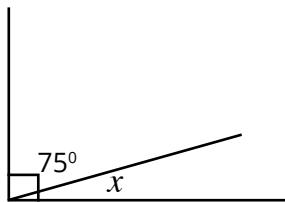
D $\frac{17}{10000}$

13. $\frac{3}{4} \text{ m} = \dots \text{ cm}$

- A 7.5
 - B 25
 - C 50
 - D 75
-

14. The value of angle x is

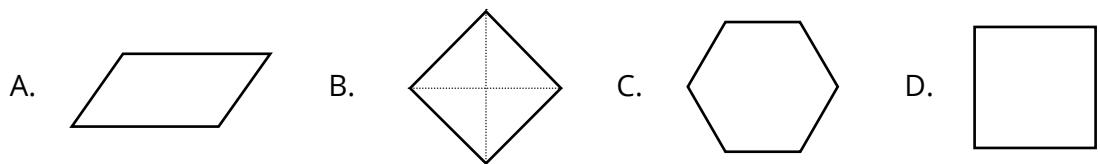
- A 15°
 - B 25°
 - C 105°
 - D 35°
-



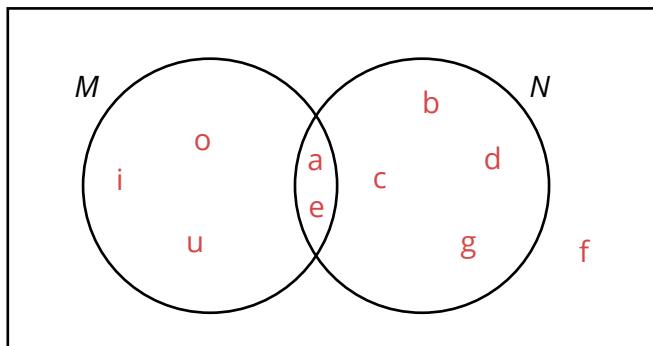
15. The factors of 4 are

- A 1, 2
 - B 1, 2, 4
 - C 1, 4, 8
 - D 1, 2, 4, 8
-

16. Which one of the following polygons is a parallelogram?



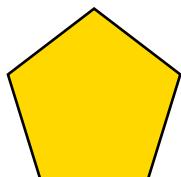
17. The elements of $M \cap N$ are _____



- A { a ,b, c, d, e, g, i, o, u }
 - B { b, c, d, f, g, o, i, u }
 - C { a, e }
 - D { f }
-

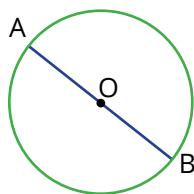
18. The regular polygon below has lines of symmetry.

- A 4
- B 6
- C 3
- D 5



19. In the following diagram, O is the centre of the circle. Line AB is called the of the circle.

- A circumference
- B diameter
- C radius
- D chord



20. The time shown in the clock below is

- A quarter to five
- B five o'clock
- C quarter past five
- D half past five



21. Factorise completely $3y^2 - 15y$

Answer:

22. Complete the given Fibonacci sequence

1, 4, 5, 9,

Answer:

23. Find the H.C.F. of 24 and 36.

Answer:

24. A bus leaves Port Louis at 13 40 and reaches Mahebourg and 14 55. Calculate the time taken for this journey in hour and minutes.



Answer:

25. A basket contains 30 apples. 6 apples are rotten. Find the percentage of rotten apples in the basket.

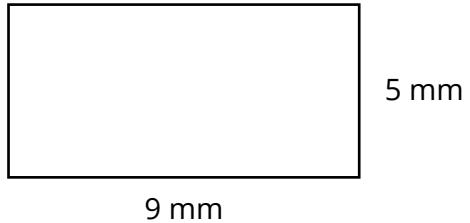


Answer:

26. Given $\binom{2}{3} + \binom{3}{x} = \binom{5}{4}$, find the value of x .

Answer:

27. Find the area of the following rectangle.



Answer:

28. Evaluate 25% of 1000 kg.

Answer:

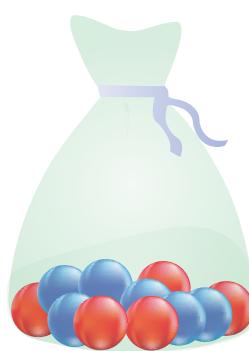
29. The average daily temperature for a particular week at Bagatelle is shown in the table below.

Monday	Tuesday	Wednesday	Thursday	Friday
18 °C	16 °C	14 °C	21 °C	13 °C

Which day had the coldest temperature?

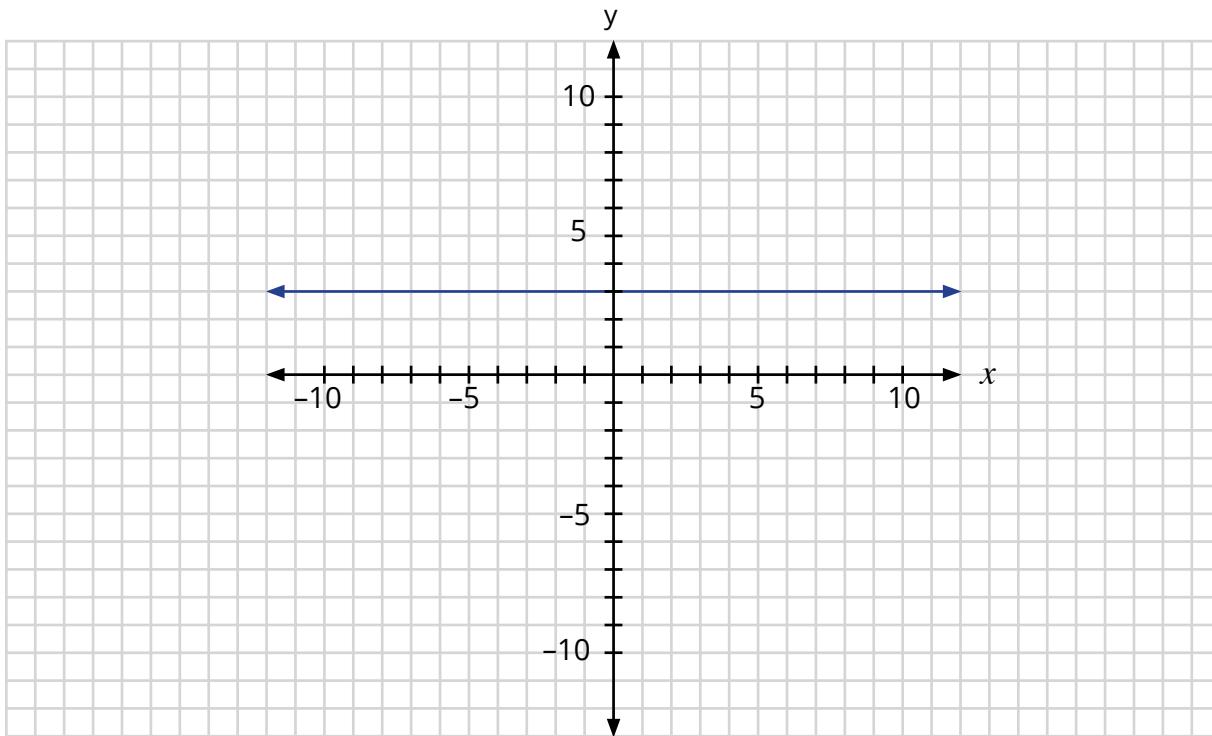
Answer:

30. A bag contains 5 red marbles and 6 blue marbles. One marble is taken from the bag at random. What is the probability that it will be a blue marble?



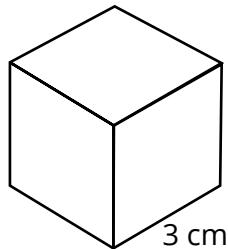
Answer:

31. Write down the equation of the line given in the Cartesian plane below.



Answer:

32. The following diagram shows a cube of side 3 cm. Find the volume of the cube.

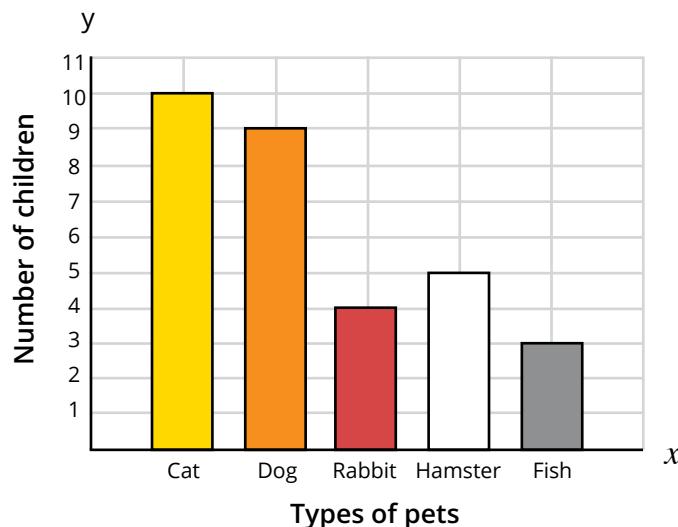


Answer:

33. State the mode of the following numbers 5, 1, 9, 4, 9, 2, 9.

Answer:

34. Find the total number of children who like cats and rabbits.



Answer:

35. A vegetable seller bought 50 kg of potatoes for Rs 600.

He sold all the potatoes for Rs 850. Find the profit which he made.

Answer:

36. A car travels 80 km in 2 hours. Calculate its speed in km/h.

Answer:

37. Find the equation of the line having a gradient of 2 and y-intercept -3.

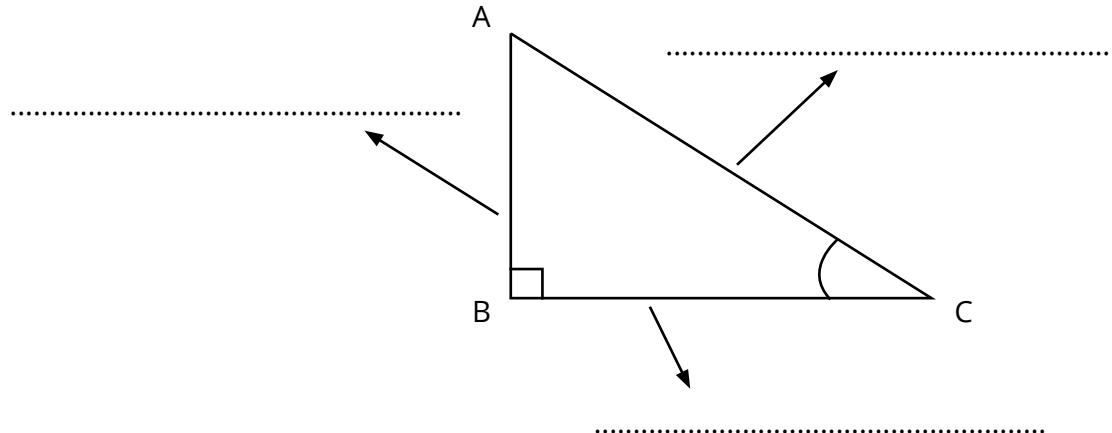
Answer:

38. A cake costs Rs 5.50. What is the cost of 4 such cakes?

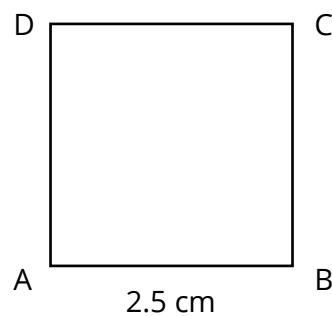


Answer:

39. Label the given triangle using the following words: hypotenuse, opposite, and adjacent.



40. Find the perimeter of the given square.



Answer:

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MATHEMATICS

Practice Paper 3

1 Hour

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- The total number of marks for this paper is 40 marks.

Name of student :

ANSWER ALL QUESTIONS

1. Work out
$$\begin{array}{r} 1045 \\ + 321 \\ \hline \end{array}$$

Answer:

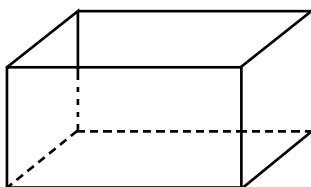
2. Simplify $3a + 7a - 2a$

Answer:

3. Fill in the blank with the symbol \subset or $\not\subset$.

$\{8\}$ $\{1, 3, 5, 8\}$

4. What is the name of the following figure?



Answer:

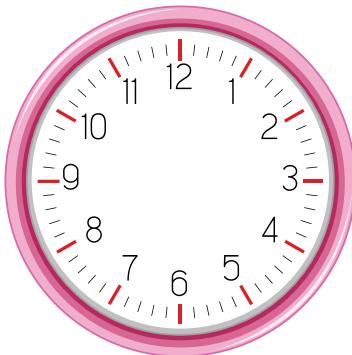
5. Simplify $(p^3)^2$

Answer:

6. Complete the sequence given below

10, 7, 4, 1,

7. Draw the minute and hour hand in the following clock face to show quarter to six.



8. Convert the following

580 mm = cm

9. Evaluate $\frac{4}{5} \div \frac{4}{10}$

Answer:

10. Express $\frac{3}{25}$ as a decimal.

Answer:

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

11. Two hundred and fifty one written in figures is

- A 251
 - B 215
 - C 152
 - D 521
-

12. How many line(s) of symmetry does the following figure have?

- A 0
 - B 1
 - C 2
 - D 4
-



13. The diameter of a circle with radius 14 cm is

- A 88 cm
 - B 28 cm
 - C 14 cm
 - D 7 cm
-

14. 0.70 as a fraction is

A $\frac{7}{10}$

B $\frac{7}{100}$

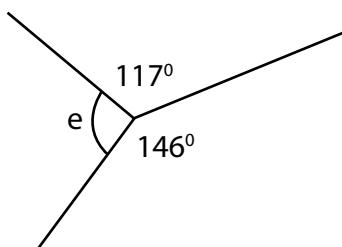
C $\frac{7}{1000}$

D $\frac{1}{7}$

15. The ratio 3 : 15 in its simplest form is

- A 5 : 3
 - B 5 : 1
 - C 3 : 5
 - D 1 : 5
-

16. The value of angle e is

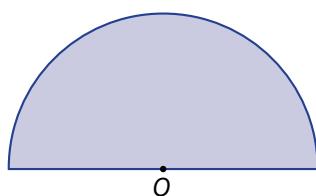


- A 34°
 - B 63°
 - C 97°
 - D 263°
-

17. The value of $\sqrt[3]{8}$ is

- A 2
 - B 4
 - C 8
 - D 16
-

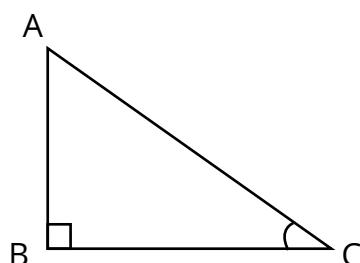
18. The diagram below represents



- A a quarter of a circle
 - B a semicircle
 - C three quarter of a circle
 - D a complete circle
-

19. In the following diagram, the side AC is known as the

- A opposite
- B adjacent
- C diameter
- D hypotenuse



20. A car covers a total distance of 90 km at an average speed of 60 km/h. The time taken to travel this distance is minutes.

- A 30
 - B 90
 - C 120
 - D 150
-

21. Solve the inequality $x - 1 < 7$

Answer:

22. Factorise completely $3v - 9v^2$

Answer:

23. Yash has 36 marbles. She gives $\frac{1}{3}$ of them to her sister Komal. How many marbles does Yash have left?

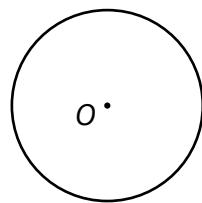
Answer:

24. Solve the following equation

$$3x = -12$$

Answer:

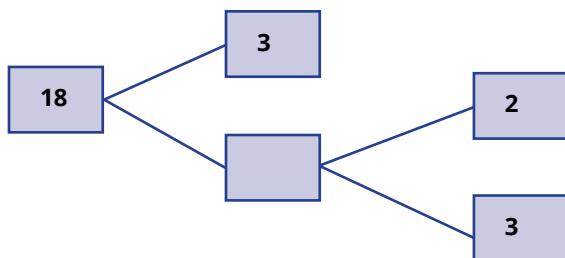
25. O is the centre of the given circle below. Draw one diameter of the circle.



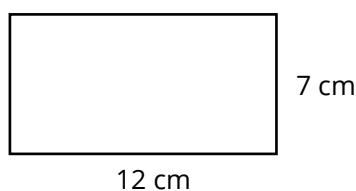
26. Find the L.C.M. of 5, 10 and 15

Answer:

27. Complete the following factor tree.



28. Find the perimeter of the rectangle below.



Answer:

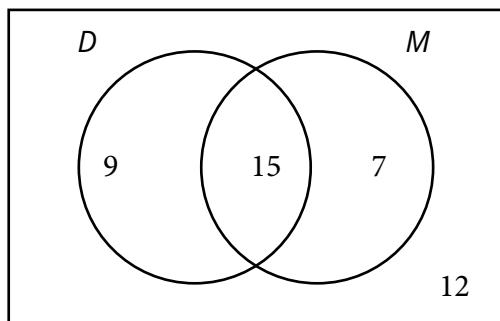
29. The following pictogram shows the fruit preferred by the children in a class. Find the total number of children in the class.

Key: 😊 means 1 child

Fruit	Favourite Fruit
apple	😊😊😊😊😊
banana	😊😊😊😊😊😊😊
strawberry	😊😊😊
pear	😊😊
orange	😊😊😊😊

Answer:

30. List the elements of the set $D \cup M$.



Answer:

31. Find the ratio of the number of apples to the number of oranges in its simplest form.



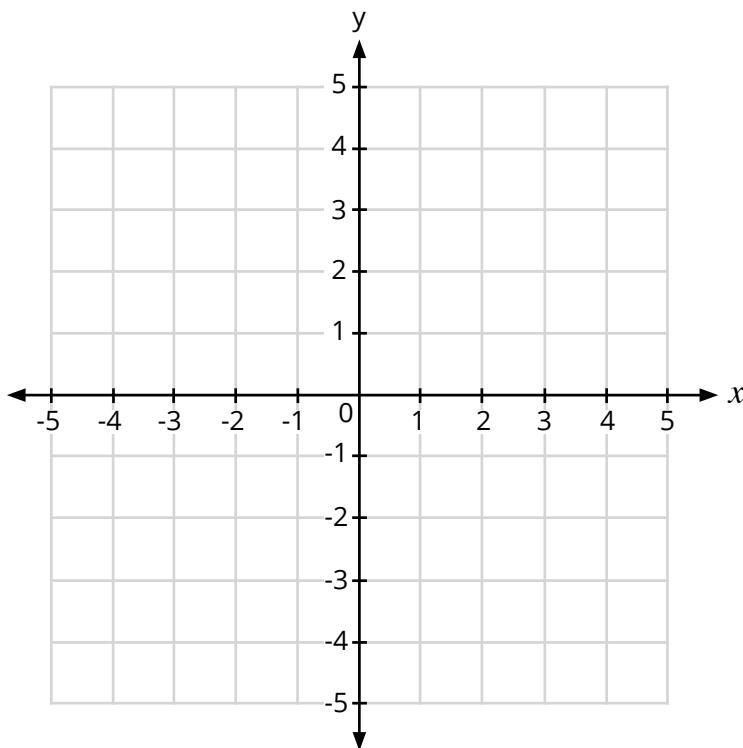
apples



oranges

Answer:

32. Draw the line $x = 4$ in the Cartesian plane given below.



33. A taxi leaves Rose Hill at 14 25 and reaches SSR airport 55 minutes later. At what time does the taxi reach the airport?

Answer:

34. Arav had Rs 100. He bought 2 sketch pads for Rs 76. How much money did he have left?

Answer:

35. Given $X = \begin{pmatrix} 1 & 2 \\ -1 & -3 \end{pmatrix}$ and $Y = \begin{pmatrix} 1 & 0 \\ 4 & 3 \end{pmatrix}$.

Find $X + Y$.

Answer:

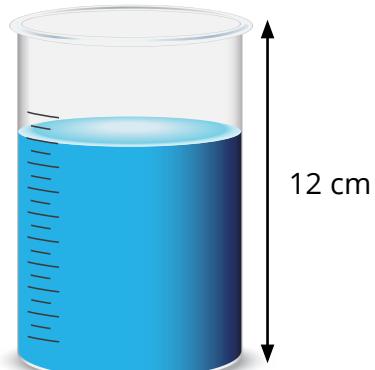
36. The spinner below is rotated once. Find the probability that the arrow will point to the number 1.



Answer:

37. The height of the cylinder 12 cm.

If it is **three quarter** full, find the depth of water in the cylinder.

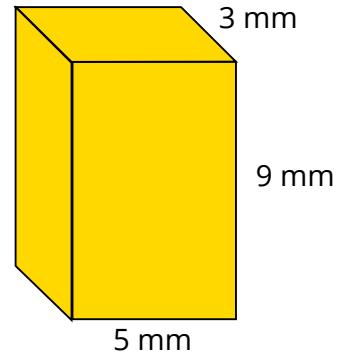


Answer:

38. Vinaye pays a shirt for Rs 650 after getting a discount of Rs 125. Find the normal price of the shirt.

Answer:

39. Find the volume of the given cuboid.



Answer:

40. The length of a running track is 400 m. Usain runs 5 times along the track. What distance does he cover in kilometres?



Answer:

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MATHEMATICS

Practice Paper 4

1 Hour

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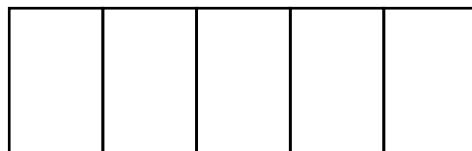
Name of student :

1. Work out

$$\begin{array}{r} 257 \\ - 132 \\ \hline \end{array}$$

Answer:

2. Shade $\frac{1}{5}$ of the diagram



3. Circle the even number.

33 , 34 , 67 , 65

4. Evaluate $\frac{5}{7} - \frac{2}{7}$

Answer:

5. An octagon has sides.
-

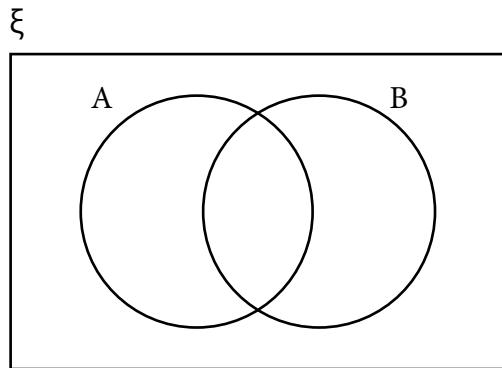
6. Convert 2 m into cm.

Answer:

7. Complete the pattern

$$(1, 1), (1, 2), (1, 3), (\dots, \dots)$$

8. Shade $A \cup B$



9. Find the mean of 15, 10 and 11.

Answer:

10. Calculate 10% of 250

Answer:

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

11. What is the value of $\frac{1}{3} \times 9$?

- A 1
 - B 2
 - C 3
 - D 9
-

12. $\frac{3}{100} = \dots$

- A 0.3
 - B 0.03
 - C 0.003
 - D 300
-

13. The gradient of the line $y = 2x + 3$ is

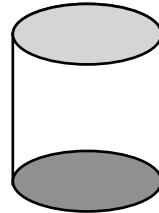
- A 0
 - B 1
 - C 2
 - D 3
-

14. $2 \times 2 \times 2 \times 2 \times 2$ is equal to

- A 2^2
 - B 2^3
 - C 2^4
 - D 2^5
-

15. The solid shape shown below is a

- A cone
 - B cylinder
 - C sphere
 - D cube
-

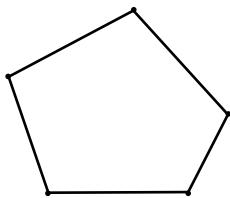


16. The area of a circle having radius r units is

- A πr^2
 - B $2\pi r^2$
 - C $2\pi r$
 - D $4\pi r^2$
-

17. How many vertices are there in the figure below?

- A 5
 - B 3
 - C 2
 - D 4
-

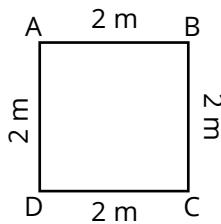


18. Which of the following is a binomial expression?

- A $3x$
 - B $4p + 5$
 - C $2x + 3y - 5$
 - D $4a - 7ab + 3b + 1$
-

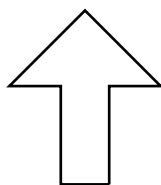
19. The perimeter of the figure is

- A 2 m
 - B 4 m
 - C 8 m
 - D 16 m
-



20. How many line(s) of symmetry are there in the given figure?

- A 1
 - B 2
 - C 3
 - D 4
-



21. Complete

$$24 \div 6 - \boxed{\quad} = 3$$

Answer:

22. Write **greater** or **less** in the space below



5 L
Object A

250 mL
Object B

Object A has capacity than object B.

23. Simplify $2a + 3a$

Answer:

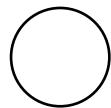
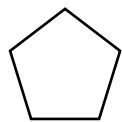
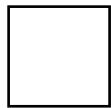
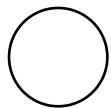
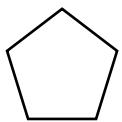
24. Fill in the box with $<$ or $>$

-12 23

25. Factorise $2x + 10$

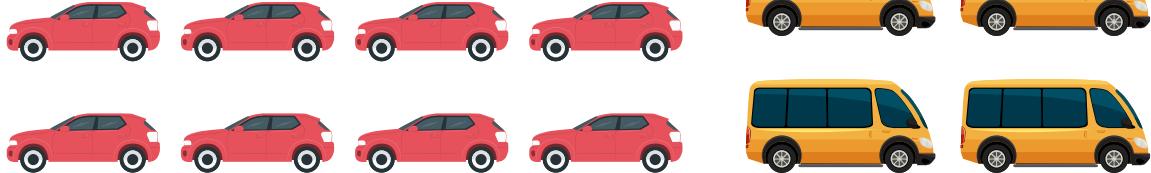
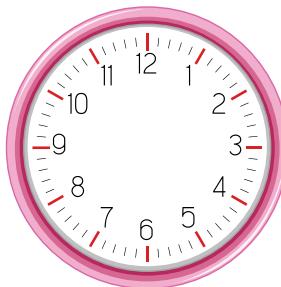
Answer:

26. Complete the pattern below.



.....

27. Draw the hands of the clock to show **half past four**.



28. The simplest ratio of the number of cars to the number of vans is :

29. Match the correct trigonometric ratio

$$\frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\boxed{\cos \theta =}$$

$$\frac{\text{opposite}}{\text{adjacent}}$$

$$\frac{\text{opposite}}{\text{hypotenuse}}$$

30. Perform the matrix addition

$$\begin{pmatrix} 1 & 2 \\ -1 & -3 \end{pmatrix} + \begin{pmatrix} 1 & 2 \\ -1 & -3 \end{pmatrix} = \begin{pmatrix} & \\ & \end{pmatrix}$$

31. A jar contains 5 red and 2 green sweets.

The probability of taking a **red** sweet at random is



32. Find the **area** of the rectangular garden having length 10 m and width 7 m.



Answer:

33. Sam bought a pair of shoes in a sale. The price was reduced from Rs 750 to Rs 500.
Find the discount.



Answer:

34. At the market, Mary buys 200 g of apples and 225 g of grapes.
What is the **total** mass of fruits bought?



200 g



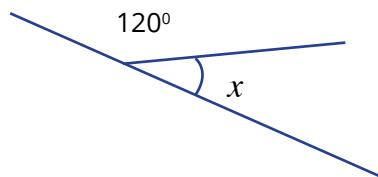
225 g

Answer:

35. A watch costing Rs 1200 is sold for Rs 1500.
Calculate the profit.

Answer:

36. Find angle x .



Answer: $x \equiv$

37. The cost of a notebook is Rs. 35.
Find the cost of 4 such notebooks.



Answer:

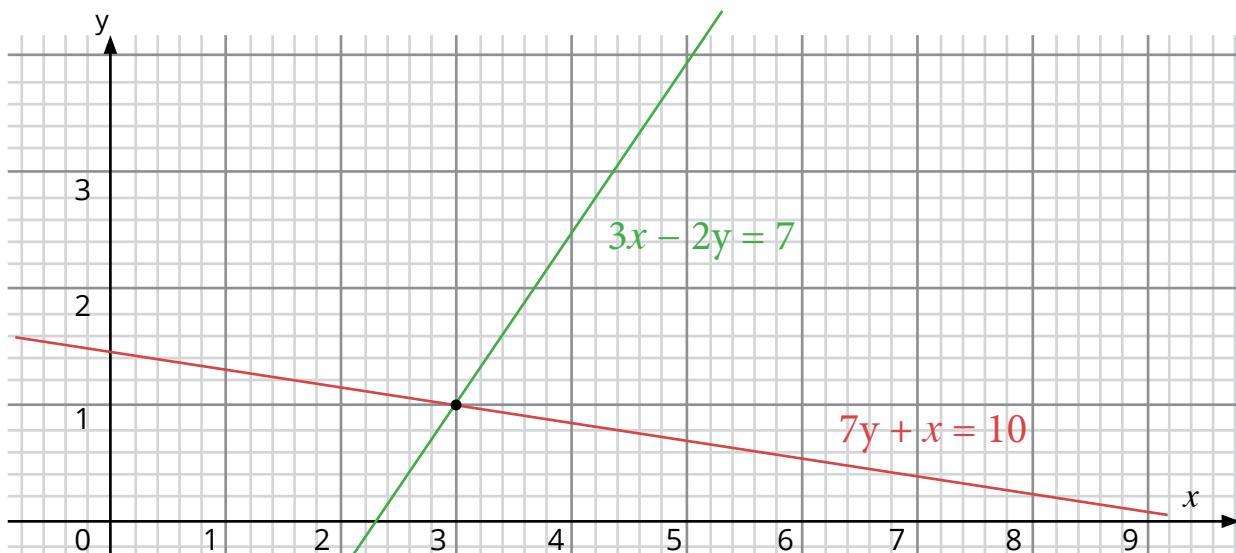
38. The table shows the favourite colour of each student in a class.

Favourite Colour	Number of students
Red	13
Blue	6
Yellow	6
Green	5

Study the table and complete the sentence below.

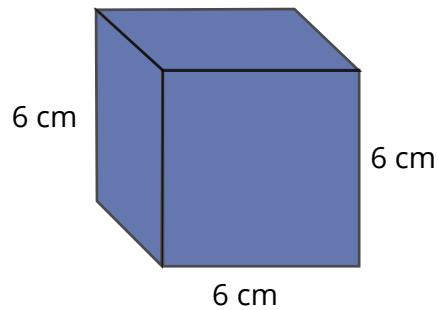
..... and are the favourite colours for the **same** number of students.

39.



The point of intersection of the two lines in the diagram is (.....,)

40. Find the volume of the cube with each edge of length 6 cm.



Answer:

GRADE 9+

Extended Programme

MATHEMATICS

Practice Paper 5

1 Hour

Read these instructions first

- Write your name in the space provided below.
- Use black or blue ink.
- HB pencils may be used for the diagrams / sketches only.
- Do not use correction fluid.
- Read each question carefully.
- All answers must be written in the spaces provided.
- Answer all questions.
- Any rough working should be done in this booklet.
- Each question carries 1 mark.
- The total number of marks for this paper is 40 marks.

Name of student :

1. Work out

$$\begin{array}{r} 322 \\ + 573 \\ \hline \end{array}$$

Answer:

2. Express 0.37 as a fraction.

Answer:

3. Calculate 4.2×2

Answer:

4. Simplify $10 : 15$

Answer:

5. Convert 5 hours into minutes.

Answer:

6. Simplify $7p - 5p$.

Answer:

7. Find the value of $\sqrt{81}$

Answer:

8. Simplify $x^3 \times x^6$

Answer:

9. Kevin bought a cake. He eats $\frac{1}{4}$ of it. What fraction of the cake is left?

Answer:

10. Find the H.C.F. of 14 and 42.

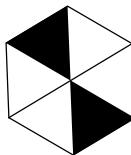
Answer:

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

11. A decimal number between 2.1 and 2.3 is

- A 2.0
 - B 2.1
 - C 2.2
 - D 2.3
-

12. What fraction of the diagram is shaded?



A $\frac{1}{2}$

B $\frac{1}{3}$

C $\frac{1}{4}$

D $\frac{1}{5}$

13. The figure below has of symmetry.



- A no line
B 1 line
C 2 lines
D 4 lines
-

14. The angle 200° is angle.

- A an acute
B an obtuse
C a right
D a reflex
-

15. A pentagon has sides.

- A 4
B 5
C 6
D 7
-

16. Which of the following is a regular polygon?

- A Square
B Scalene triangle
C Rectangle
D Isosceles triangle
-

17. Which of the following coordinates lie on the line with equation $y = x + 3$?

- A (2, 4)
 - B (2, 5)
 - C (2, 6)
 - D (2, 7)
-

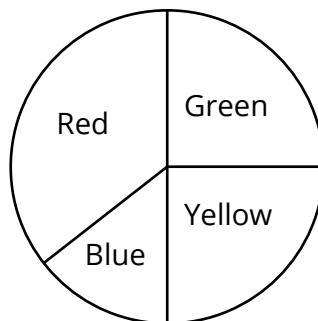
18. Wayne makes a loss of Rs 200 when he sells a calculator for Rs 800.
Find the buying price of the calculator.

- A Rs 400
 - B Rs 600
 - C Rs 1000
 - D Rs 1600
-

19. Dhyana pays a bill of Rs 172 with a 200-rupee note. The change that she receives is

- A Rs 28
 - B Rs 38
 - C Rs 128
 - D Rs 372
-

20.



The above diagram is known as a

- A bar chart
 - B Venn diagram
 - C pictogram
 - D pie chart
-

21. Write down the next term in the sequence below

3, 8, 13,

22. Arrange the following numbers in **ascending order**.

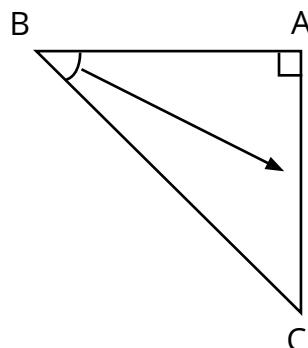
3.7, 3.2, 7.2, 2.7

Answer:

23. Convert 4.2 kilometres into metres.

Answer:

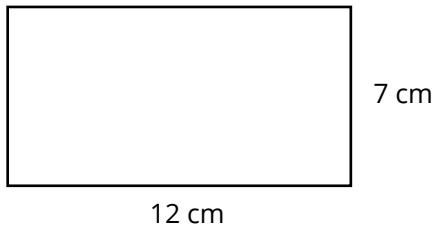
24. ABC is a right-angled triangle. AC is called the



25. What is the smallest integer value of y given that $y > 7.2$?

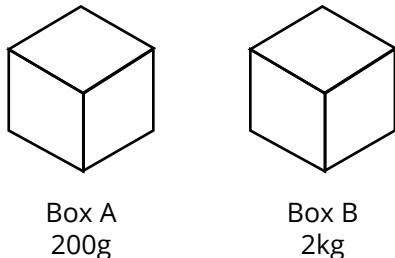
Answer:

26. Calculate the area of the rectangle given below.



Answer:

27. Which box is heavier?



Answer:

28. The radius of a circle is 4.5 cm. Find its diameter.

Answer:

29. State the gradient of the line with equation $y = -5x + 6$.

Answer:

30. Solve the equation

$$x - 5 = 2$$

Answer:

31. Given that $m = -5$, find the value of the expression $2m - 3$.

Answer:

32. It is given that $p + 2q = r$. Make p the subject of the formula.

Answer:

33. Work out

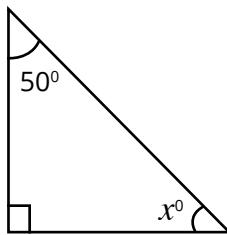
$$\begin{pmatrix} 5 \\ 2 \end{pmatrix} + \begin{pmatrix} 4 \\ -1 \end{pmatrix}$$

Answer:

34. It is given that $\vec{AB} = \begin{pmatrix} 5 \\ 1 \end{pmatrix}$. Write down the vector \vec{BA} .

Answer:

35. Calculate the value of angle x in the diagram below.



Answer:

36. It is given that $A = \{1, 2, 3, 4\}$ and $B = \{3, 4, 5, 6\}$.

List the elements of the set $A \cap B$.

Answer:

37. Find the **mean** of the numbers 2, 5, 6, 4, 3.

Answer:

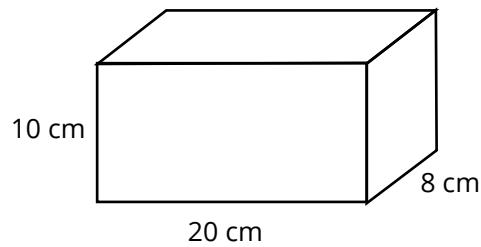
38. Given that $A = \begin{pmatrix} 1 & -3 \\ 0 & -2 \end{pmatrix}$, find $3A$.

Answer:

39. Nat has 5 sweets of which 2 are red and 3 are yellow. She selects a sweet at random. What is the probability that she selects a yellow sweet?

Answer:

40. Calculate the volume of the cuboid given below.



Answer:

GRADE 9+

Extended Programme

MATHEMATICS

Practice Paper 6

1 Hour

Read these instructions first

- Write your name in the space provided below.
- Use black or blue ink.
- HB pencils may be used for the diagrams / sketches only.
- Do not use correction fluid.
- Read each question carefully.
- All answers must be written in the spaces provided.
- Answer all questions.
- Any rough working should be done in this booklet.
- Each question carries 1 mark.
- The total number of marks for this paper is 40 marks.

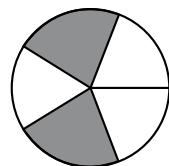
Name of student :

1. Work out.

$$\begin{array}{r} 351 \\ - 120 \\ \hline \end{array}$$

Answer:

2. What fraction of the figure is shaded?



Answer:

3. Ring the square number.

2.1 4 $8\frac{1}{3}$ 27

4. Evaluate $2 \times 3 - 1$

Answer:

5. Complete.

$2 \text{ kg} = \dots \text{ g}$

6. Evaluate 5^0

Answer:

7. Complete the sequence below.

10, 15, 20, 25,

8. Simplify $x + 4x$

Answer:

9. Consider the set $A = \{ b, a, s, k, e, t \}$

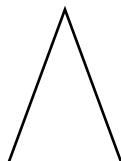
$n(A) =$

10. A heptagon has sides.

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

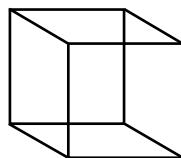
11. How many line(s) of symmetry are there in an isosceles triangle?

- | | |
|---|---|
| A | 1 |
| B | 2 |
| C | 3 |
| D | 4 |



12. The name of the solid shape is a

- A sphere
 - B cylinder
 - C cone
 - D cuboid
-



13. The coefficient in the term $5xy$ is

- A 1
 - B 3
 - C 5
 - D 10
-

14. What is three tenths as a fraction?

- A $\frac{3}{10}$
 - B $\frac{3}{100}$
 - C $\frac{3}{1000}$
 - D 30
-

15. If $2x + 3 = 5$, the value of x is

- A 1
 - B 2
 - C 5
 - D 7
-

16. The mean of the numbers 10, 20, 30 and 40 is

- A 20
 - B 25
 - C 30
 - D 50
-

17. The ratio $4 : 20$ in its simplest form is

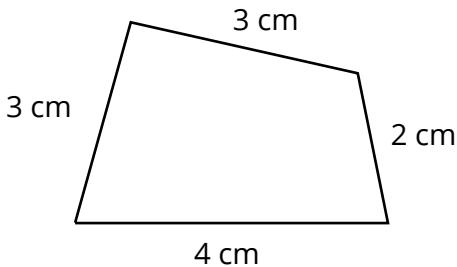
- A $1 : 4$
 - B $1 : 5$
 - C $4 : 1$
 - D $2 : 10$
-

18. Which of the following is an improper fraction?

- A $\frac{2}{3}$
 - B 0.33
 - C $\frac{5}{2}$
 - D half
-

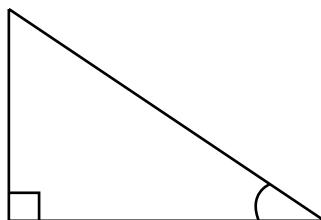
19. The perimeter of the figure is

- A 6 cm
- B 7 cm
- C 12 cm
- D 24 cm



20. The longest side of a right-angled triangle is called its

- A opposite
- B adjacent
- C perimeter
- D hypotenuse

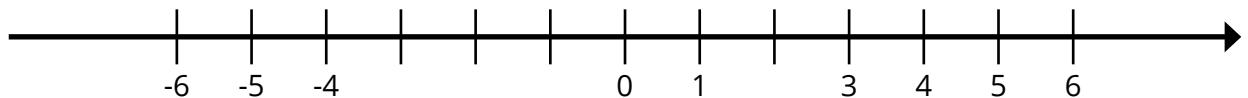


21. The time shown in the clock is



Answer:

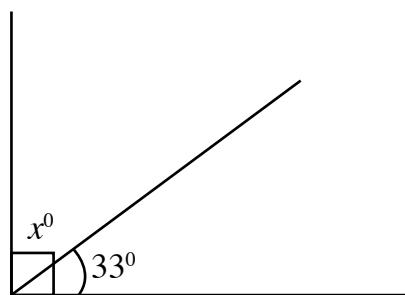
22. Write -2 on the number line below.



23. Calculate 12% of 200.

Answer:

24. Find angle x .



Answer: $x^\circ =$

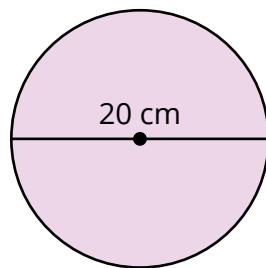
25. Fill in with < or >

$$1586 \boxed{} 1568$$

26. Arrange 5.2, 2.3, 3.4 and 1.7 in **ascending** order.

Answer:

27. The diameter of a circle with centre O is 20 cm. Find its radius.



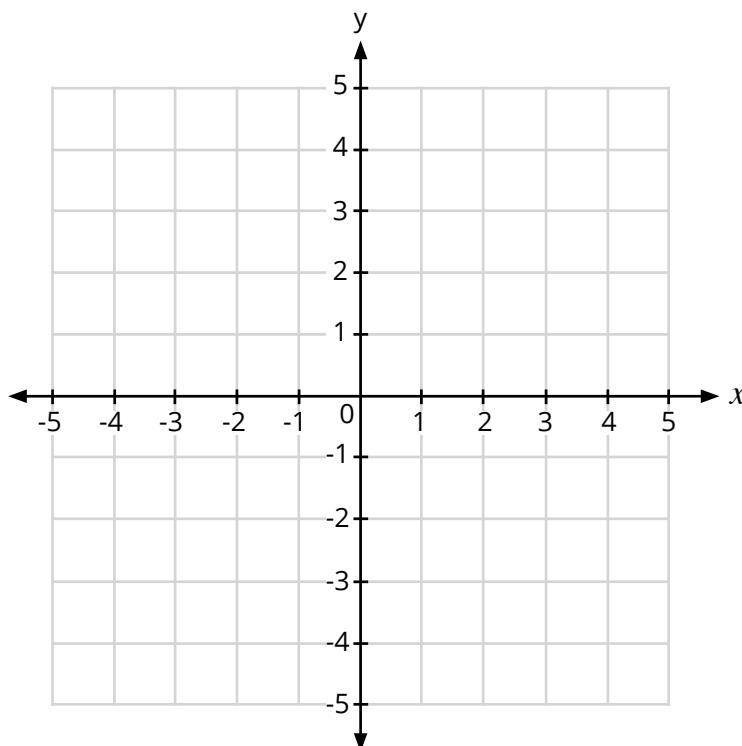
Answer:

28. Work out.

$$2 \begin{pmatrix} 1 & -5 \\ 3 & 2 \end{pmatrix}$$

Answer:

29. Plot the point (3, -2) in the grid.



30. Fill in the box with the correct word from adjacent or hypotenuse.

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

Answer:

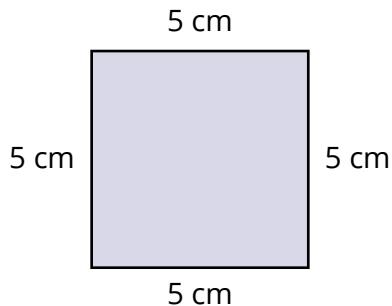
31. Given

$$6 = 2 \times 3$$
$$30 = 2 \times 3 \times 5$$

Find the L.C.M. of 6 and 30.

Answer:

32. Find the area of a square of length 5 cm.



Answer:

33. Sam has Rs 250. He buys a book for Rs 120.

How much money has he left?

Answer:

34. A die is tossed. What is the probability of obtaining a six?



Answer:

35. Naomi mixes 1 L of water with 50 mL of orange juice. What is the amount of the mixture she gets altogether in mL?



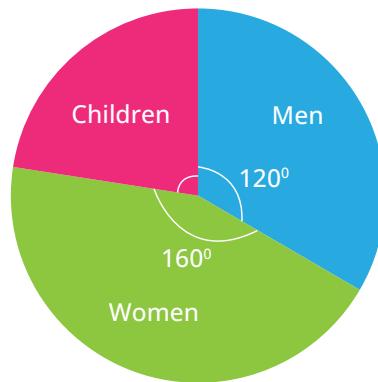
Answer:

36. After selling a T-shirt for Rs 350, a profit of Rs 125 was made.
What was the cost price of the T-shirt?



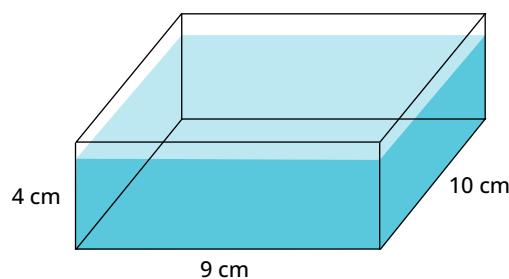
Answer:

37. Calculate the angle representing 'Children' in the pie chart.



Answer:

38. Find the volume of water in the tank below.



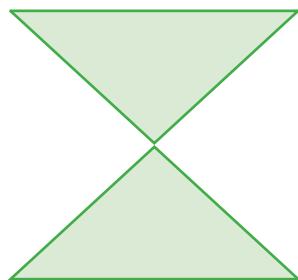
Answer:

39. A car travels a distance of 40 km in 1 hour.

What is the distance covered in 3 hours?

Answer:

40. Draw the line(s) of symmetry of the figure.



GRADE 9+

Extended Programme

MATHEMATICS

Practice Paper 7

1 Hour

Read these instructions first

- Write your name in the space provided below.
- Use black or blue ink.
- HB pencils may be used for the diagrams / sketches only.
- Do not use correction fluid.
- Read each question carefully.
- All answers must be written in the spaces provided.
- Answer all questions.
- Any rough working should be done in this booklet.
- Each question carries 1 mark.
- The total number of marks for this paper is 40 marks.

Name of student :

1. Work out 302

x 4

2. Ring the odd number.

34, 42, 67, 76

3. Find the value of 2^3

Answer:

4. Express 23% as a fraction

Answer:

5. Simplify $\frac{2}{3} \div 4$

Answer:

6. Fill in with < or >

2.15 2.45

7. Simplify $8p^2 - 3p^2$

Answer:

8. Complete the sequence

12, 14, 16, 18,

9. Make x the subject of formula in

$$x + b = c$$

Answer:

10. Write TRUE or FALSE

12 is exactly divisible by 2.

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

11. $\frac{9}{10} =$

- A 0.9
- B 0.09
- C 0.009
- D 90

12. $40 \text{ mm} =$

- A 400 cm
- B 4 cm
- C 0.4 cm
- D 0.04 cm

13. Which of the following is a quadratic expression?

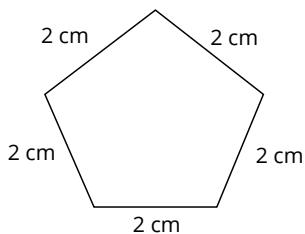
- A $x^2 + x + 3$
- B $8x - 7$
- C $3x^3 - 9$
- D 5

14. Which one of the following fractions is the **largest**?

- A $\frac{2}{7}$
 - B $\frac{3}{7}$
 - C $\frac{5}{7}$
 - D $\frac{6}{7}$
-

15. The perimeter of the figure is

- A 10 cm
- B 15 cm
- C 20 cm
- D 50 cm



16. Between which of the following two whole numbers does 5.3 lie?

- A 2 and 3
- B 3 and 4
- C 4 and 5
- D 5 and 6

17. The matrix $\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$ is a matrix.

- A row
- B column
- C null
- D identity

18. There are 30 boys and 20 girls in a class. The ratio of the number of girls to the number of boys is

- A 2 : 3
- B 3 : 2
- C 2 : 5
- D 3 : 5

19. The set of points (5, 1), (5, 3) and (5, 5) lie on the line

- A $y = 5$
- B $x + y = 5$
- C $x = 5$
- D $y = x$

20. The mode of the set of numbers 2, 3, 3, 3, 4, 5, 5 is _____.

- A 2
 - B 3
 - C 4
 - D 5
-

21. Sam bought one box of sweets for Rs 20. How many boxes can Sam buy if he has Rs 80?

Answer:

22. Given that $B = \{s, a, m, e\}$, fill in the blank with the symbol \in or \notin .

m B

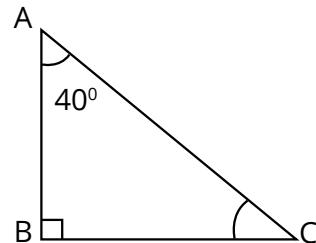
23. A number is selected at random from the list below:

2, 5, 10, 24, 50.

Find the probability that the number is a multiple of 10.

Answer:

24. Find angle C.



Answer:

25. Given

$$\begin{aligned}12 &= 2 \times 2 \times 3 \\15 &= 3 \times 5\end{aligned}$$

Find the L.C.M of 12 and 15.

Answer:

26. Find the mean of 2 kg, 3 kg, 8 kg, 10 kg and 12 kg.

Answer:

27. Evaluate $(8)^{\frac{1}{3}}$

Answer:

28. Work out.

$$\left(\begin{array}{c} 4 \\ 3 \end{array}\right) - \left(\begin{array}{c} 1 \\ 5 \end{array}\right)$$

Answer:

29. Kevin travels a distance of 126 km in 3 hours.

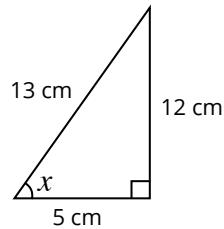
Find his average speed in kilometres per hour.

Answer:

30. A film started at 8.10 p.m and ended at 9.30 p.m.
What was the duration of the film?

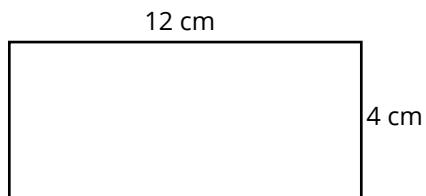
Answer:

31. Find the value of $\sin x$.



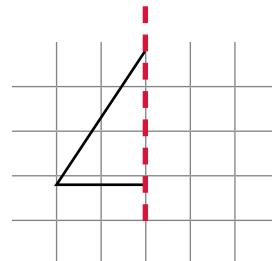
Answer:

32. Find the area of a rectangle with length 12 cm and width 4 cm.



Answer:

33. Reflect the diagram in the given mirror line.



34. A shopkeeper buys a box of chocolates at Rs 200. He later sells it at Rs 150.
Calculate his loss.

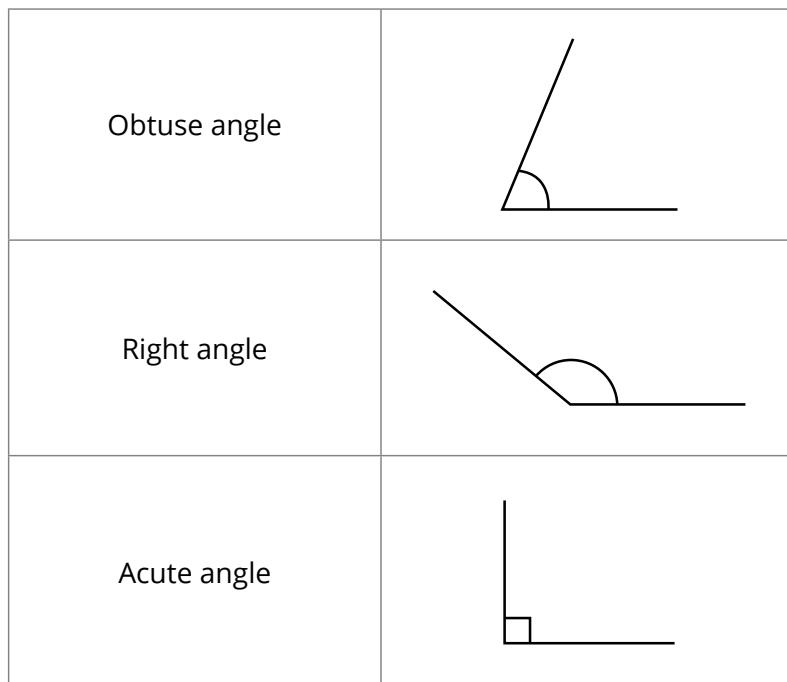


Answer:

35. In a basket containing 40 apples, $\frac{3}{8}$ are red. Find the number of red apples in the basket.

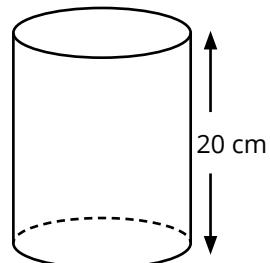
Answer:

36. Match the following.



37. The height of the cylinder is 20 cm.

If its base area is 35 cm^2 , find its volume.



Answer:

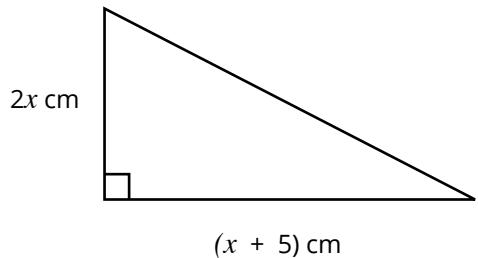
38. Complete with the correct expressions.

Base of triangle =

Height of triangle =

Area of the triangle =

(Do not simplify your answer)

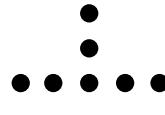


39. Draw pattern 4 in the following :

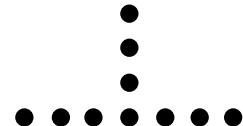
Pattern 1



Pattern 2



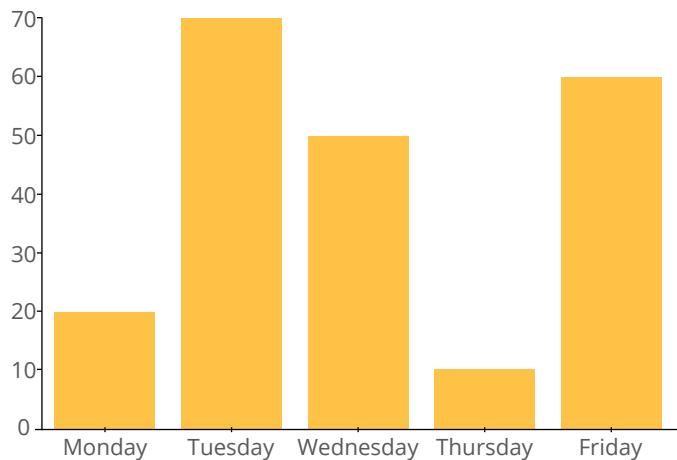
Pattern 3



Pattern 4

40. The bar chart shows the number of fruits sold in a week.

Number of fruits



How many **more** fruits were sold on Tuesday than on Thursday?

Answer:

GRADE 9+

Extended Programme

MATHEMATICS

Practice Paper 8

1 Hour

Read these instructions first

- Write your name in the space provided below.
- Use black or blue ink.
- HB pencils may be used for the diagrams / sketches only.
- Do not use correction fluid.
- Read each question carefully.
- All answers must be written in the spaces provided.
- Answer all questions.
- Any rough working should be done in this booklet.
- Each question carries 1 mark.
- The total number of marks for this paper is 40 marks.

Name of student :

1. Work out $4.9 - 1.7$

Answer:

2. Write $8 \times 8 \times 8$ in index form.

Answer:

3. Simplify $3c + 8c$

Answer:

4. Work out $14 + 6 \div 2$

Answer:

5. Complete the Fibonacci sequence below.

1, 3, 4, 7,

6. Find the number which is exactly halfway between 8 and 8.4

Answer:

7. Reduce the fraction $\frac{18}{50}$ in its lowest term.

Answer:

8. State the mode of the set of numbers below

40, 40, 41, 45, 43, 42, 42, 38, 42

Answer:

9. Calculate 10% of 850

Answer:

10. Salman buys a T.V set for Rs. 40 000. After 2 years, he sold the T.V set for Rs. 30 000.
Calculate the loss that he made.

Answer:

11. $\sqrt{2}$, π , $\sqrt{7}$, $\sqrt{5}$

The numbers listed above are known as

- A rational numbers
 - B irrational numbers
 - C prime numbers
 - D integers
-

12. The 10th of September is a Tuesday. Which day will it be on the 20th of September of the same year?

- A Tuesday
 - B Wednesday
 - C Thursday
 - D Friday
-

13. The temperature on one Sunday morning in Australia was 40°C. In the afternoon, the temperature had gone down by 20°C. What was the temperature in the afternoon?

- A 80 °C
 - B 60 °C
 - C 20 °C
 - D -20 °C
-

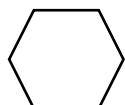
14. The expansion of $(a + b)^2$ is

- A $a^2 + b^2$.
 - B $a^2 - b^2$.
 - C $a^2 + ab + b^2$.
 - D $a^2 + 2ab + b^2$.
-

15. The formula for the area of a circle is

- A $2\pi r$
 - B πr^2
 - C $2\pi r^2$
 - D $\pi r^2 h$
-

16.



The above polygon is known as

- A a pentagon
 - B a hexagon
 - C an octagon
 - D a nonagon
-

17. The solution of the equation $2x + 1 = 9$ is _____.

- A $x = 6$
 - B $x = 5$
 - C $x = 4$
 - D $x = 3$
-

18. Which of the following is a quadratic equation?

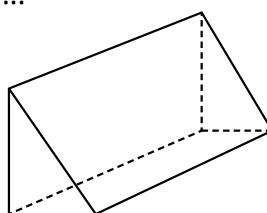
- A $2x + 5 = 0$
 - B $x^2 - 2x - 3 = 0$
 - C $x^2 + 5x$
 - D $\frac{3}{x^2} + 2x + 9$
-

19. The probability that it will rain tomorrow is $\frac{2}{7}$. What is the probability that it will **not** rain tomorrow?

- A $\frac{2}{7}$
 - B $\frac{3}{7}$
 - C $\frac{4}{7}$
 - D $\frac{5}{7}$
-

20. The shape below is known as a

- A prism
 - B triangle
 - C cuboid
 - D cylinder
-



21. From the list of numbers below, ring the integers.

$$1.1, \quad \frac{3}{4}, \quad -5, \quad \frac{9}{7}, \quad 1\frac{2}{5}, \quad 2$$

22. Work out

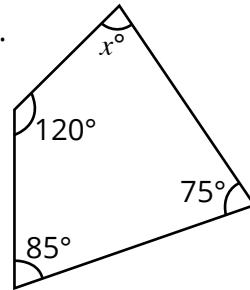
$$\begin{pmatrix} 3 \\ 2 \\ 5 \end{pmatrix} + \begin{pmatrix} 1 \\ 0 \\ 4 \end{pmatrix}$$

Answer:

23. Simran shared an amount of money equally among her three children. Each child received Rs. 50. What is the amount of money that Simran had before sharing?

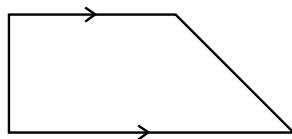
Answer:

24. Find the angle x in the diagram below.



Answer: $x^{\circ} =$

25. What is the name of the polygon below?



Answer:

26. Simplify $\left(\frac{a}{b^2}\right)^3$

Answer:

27. Simplify $\frac{4xy}{2y}$

Answer:

28. Solve the inequality $3x \leq 18$.

Answer:

29. Simplify $y(y + 2)$.

Answer:

30. Given that $y + 3x = 6$, make y the subject of formula.

Answer:

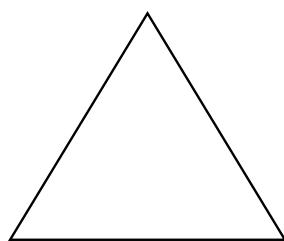
31. An amount of Rs.15 000 is to be repaid in 5 equal monthly instalments. Calculate the amount for one monthly instalment.

Answer:

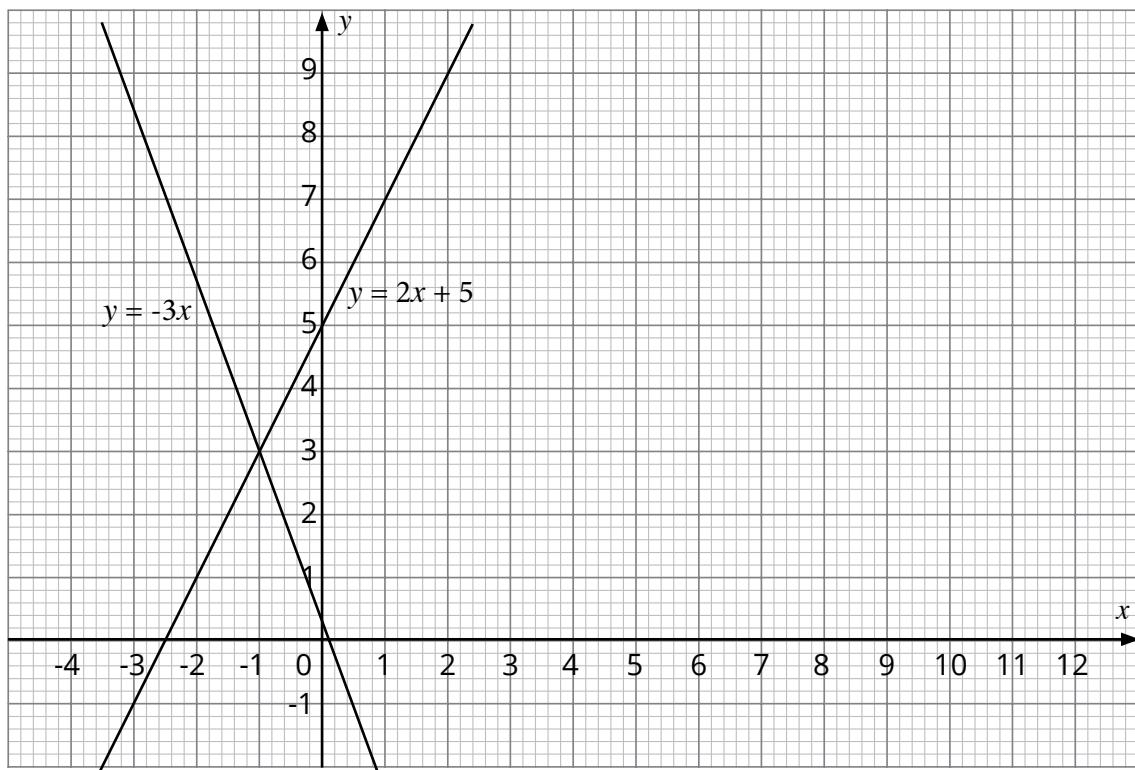
32. In a book with 200 printed pages, Ken has read 165 pages. How many pages are left for him to read the book completely?

Answer:

33. Draw the line(s) of symmetry of the equilateral triangle given below.

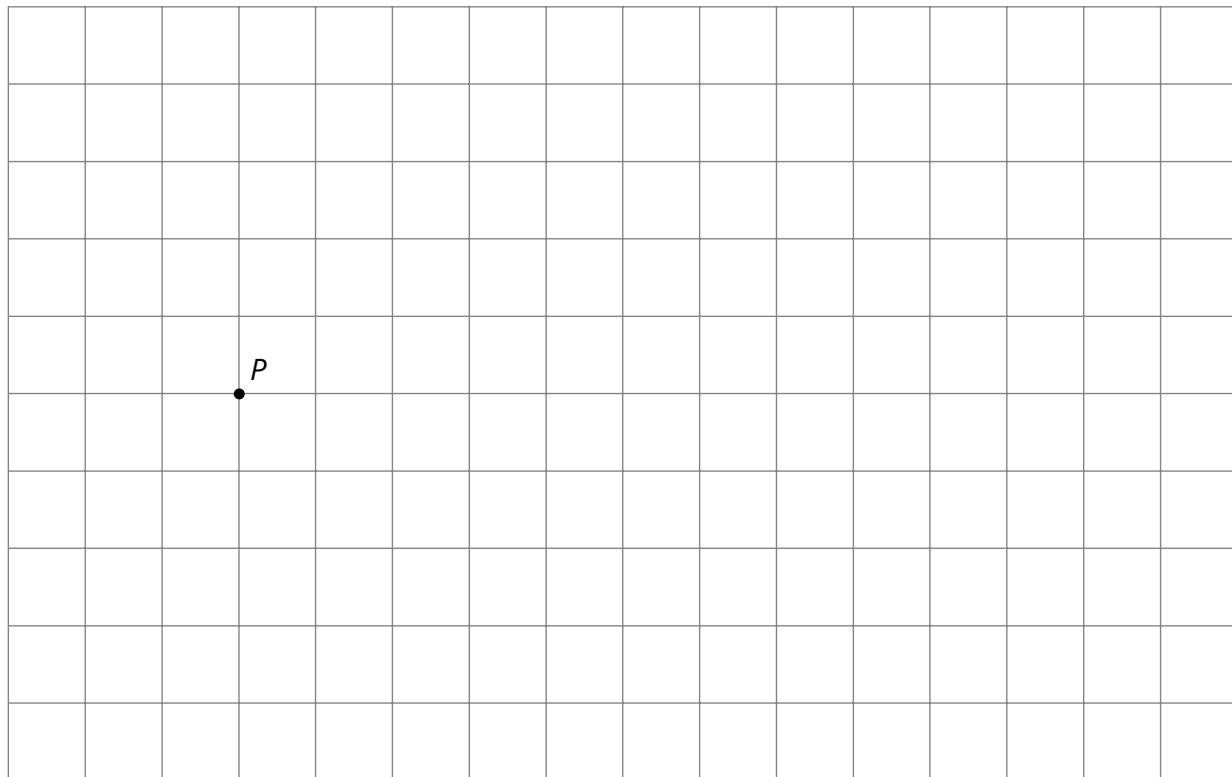


34. State the coordinates of the point of intersection of the two lines below.



Answer:

35. Represent the vector $\vec{PQ} = \begin{pmatrix} 3 \\ 2 \end{pmatrix}$ on the grid below.



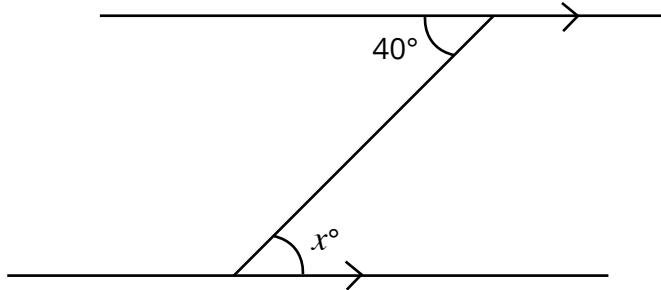
-
36. Find the mean of the numbers 10, 25 and 25.

Answer:

37. Use the formula $a^2 - b^2 = (a + b)(a - b)$ to find the value of $37^2 - 13^2$. (You should not use long multiplication)

Answer:

38. Find the angle x .

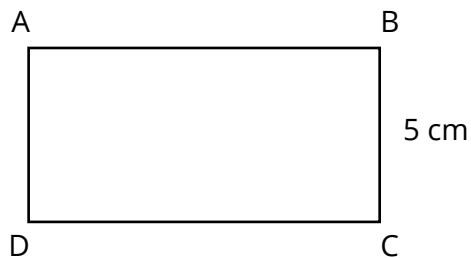


Answer: $x^\circ = \dots$

39. Given that $A = \{ p, q, r \}$ and $B = \{ r, s \}$, list the elements of $A \cup B$.

Answer: \dots

40. The length of the rectangle below is **twice** the width. Calculate the perimeter of the rectangle.



Answer: \dots

GRADE 9+

Extended Programme

MATHEMATICS

Practice Paper 9

1 Hour

Read these instructions first

- Write your name in the space provided below.
- Use black or blue ink.
- HB pencils may be used for the diagrams / sketches only.
- Do not use correction fluid.
- Read each question carefully.
- All answers must be written in the spaces provided.
- Answer all questions.
- Any rough working should be done in this booklet.
- Each question carries 1 mark.
- The total number of marks for this paper is 40 marks.

Name of student :

1. Work out

$$\begin{array}{r} 758 \\ - 215 \\ \hline \end{array}$$

2. Write in figures: **Two thousand one hundred and sixty.**

Answer:

3. Evaluate $6 + 12 \times 3$.

Answer:

4. Calculate the value of 1.2×4

Answer:

5. Work out.

$$\frac{5}{11} - \frac{1}{11}$$

Answer:

6. Express $\frac{87}{100}$ as a decimal.

Answer:

7. Simplify the ratio $8 : 24$ in its lowest term.

Answer:

8. From the list below, ring the square number.

14

$\sqrt{5}$

16

π

9. Find the L.C.M. of 6 and 8.

Answer:

10. Simplify $2 \times 3y$

Answer:

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

11. A decagon has sides.

- A 7
 - B 8
 - C 9
 - D 10
-

12. Which of the following are **like** terms?

- A $3ab$ and $2a$
 - B $3ab$ and $2x$
 - C $3a$ and $2a$
 - D $3ab$ and 2
-

13. The figure 10.156 correct to 2 decimal places is

- A 10
 - B 10.1
 - C 10.15
 - D 10.16
-

14. The value of 3^{-1} is

- A -3
 - B $-\frac{1}{3}$
 - C $\frac{1}{3}$
 - D 2
-

15. The matrix $\begin{pmatrix} 2 & 3 \\ 1 & 6 \\ 5 & 1 \end{pmatrix}$ has rows.

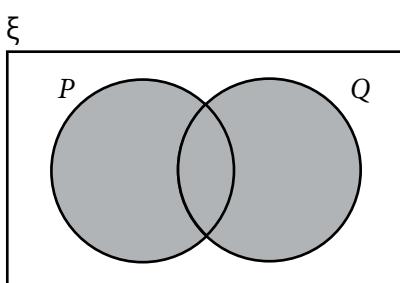
- A 2
 - B 3
 - C 4
 - D 6
-

16. The solution of the equation $\frac{2x}{5} = 4$ is

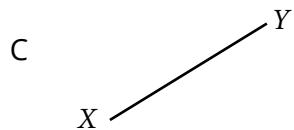
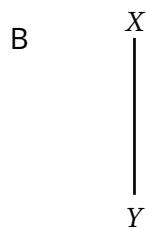
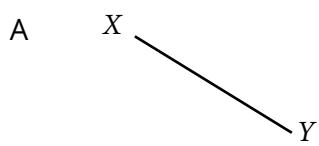
- A 4.5
 - B 10
 - C 20
 - D 40
-

17. The shaded region in the Venn diagram below represents

- A $P \cup Q$
- B $P \cap Q$
- C P^1
- D Q^1



18. Which of the following diagrams represents a line XY with a positive gradient?



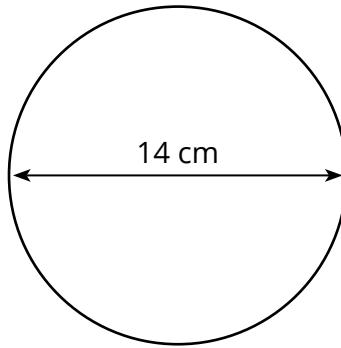
19. Taking π to be $\frac{22}{7}$, the circumference of the circle below is given by

A $2 \times \frac{22}{7} \times 14$

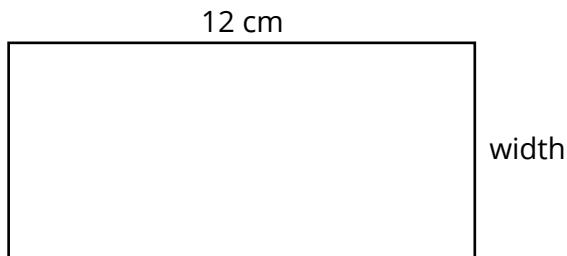
B $2 \times \frac{22}{7} \times 7$

C $\frac{22}{7} \times 14^2$

D $\frac{22}{7} \times 7^2$



20. The perimeter of the rectangle below is 40 cm.



Given that the length is 12 cm, find the width of the rectangle.

A 8 cm

B 10 cm

C 12 cm

D 20 cm

21. Fill in the blank with < or >.

$$2 \frac{1}{2} \quad \underline{\hspace{1cm}} \quad 2 \frac{1}{8}$$

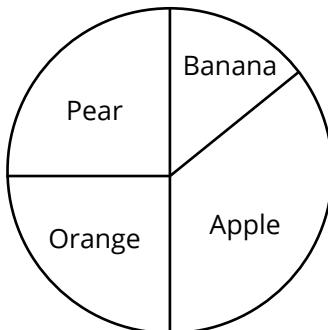
22. Convert 7.2 litres into millilitres.

Answer:

23. Express 500 m as a fraction of 2 km.

Answer:

24. The pie chart below shows the fruit preferences of students in a class. Which fruit did they like the most?

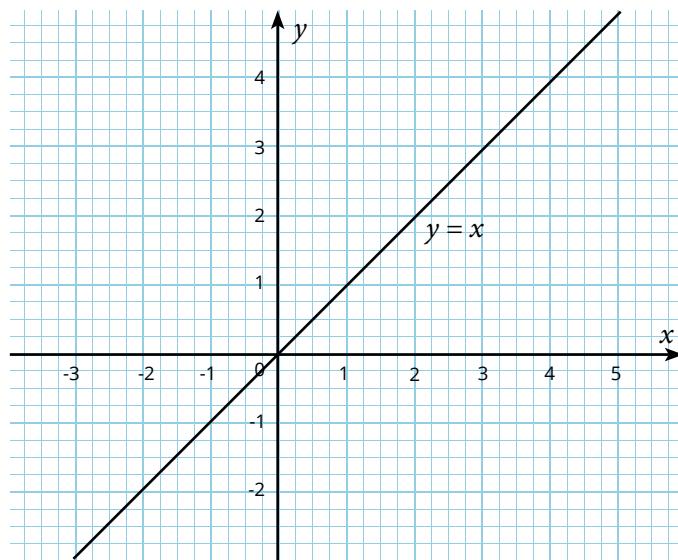


Answer:

25. Given that $b = 3a + c$, find the value of b if $a = 10$ and $c = -2$.

Answer:

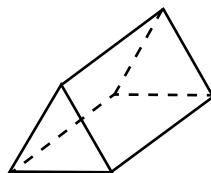
26. The graph shows the line $y = x$. State the coordinates of two points on the line.



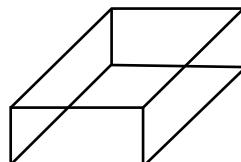
Answer:

27. Match the following.

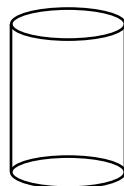
Cylinder



Triangular prism



Cuboid



28. Write the next term in the sequence below.

$$1 \times 1 + 1$$

$$2 \times 2 + 3$$

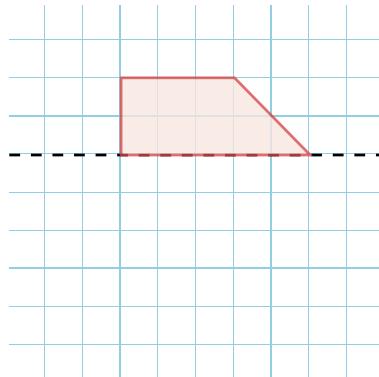
$$3 \times 3 + 5$$

.....

29. Given that $\vec{PQ} = \begin{pmatrix} 2 \\ -1 \end{pmatrix}$, write down \vec{QP} .

Answer:

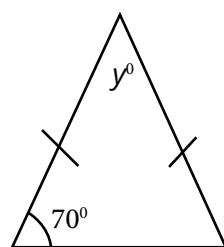
30. Complete the diagram given that the dotted line is the line of symmetry.



31. Julia shared a sum of Rs 240 equally among her 4 children.
How much did each child get?

Answer:

32. Find the value of y in the triangle below.



Answer: $y =$

33. Work out.

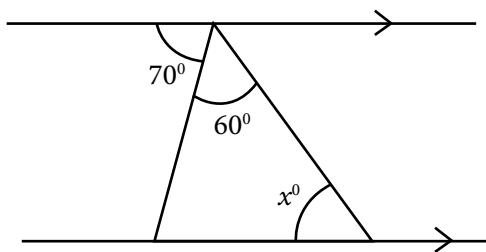
$$3 \begin{pmatrix} 5 \\ 2 \end{pmatrix} - \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

Answer:

34. Expand $x(x - 3)$.

Answer:

35. Find the value of x in the diagram below.



Answer:

36. Find the **median** of the set of numbers.

10, 12, 14, 17, 20

Answer:

37. Rishi bought an article at Rs 500. He made a loss of Rs 200 when he sold it.
At what price did he sell the article?

Answer:

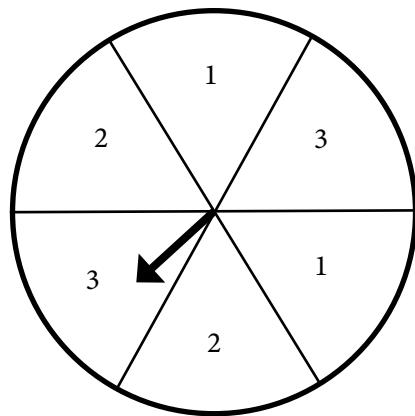
38. Solve the inequality $3x + 1 < 7$

Answer:

39. Given that $4x + y = P$, make x the subject of formula.

Answer:

40. Find the probability that the spinner lands on 3 when it is spun.



Answer:

GRADE 9+

Extended Programme

MATHEMATICS

Practice Paper 10

1 Hour

Read these instructions first

- Write your name in the space provided below.
- Use black or blue ink.
- HB pencils may be used for the diagrams / sketches only.
- Do not use correction fluid.
- Read each question carefully.
- All answers must be written in the spaces provided.
- Answer all questions.
- Any rough working should be done in this booklet.
- Each question carries 1 mark.
- The total number of marks for this paper is 40 marks.

Name of student :

1. Write 304 in words.

Answer:

2. Work out.

$$123 \times 3$$

Answer:

3. Express $\frac{3}{10}$ as a decimal.

Answer:

4. Find the value of $3^2 + 1$.

Answer:

5. Complete the sequence

$$2.2, 2.4, 2.6, \dots$$

6. Calculate 10 % of Rs 700.

Answer:

7. Express 5 months as a fraction of one year.

Answer:

8. Work out.

$$(6 \times 100) \div (3 \times 50)$$

Answer:

9. Solve the equation $\frac{y}{5} = 2$.

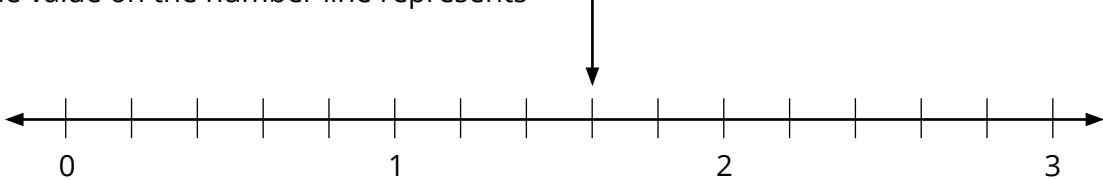
Answer:

10. Simplify $2p \times 3$

Answer:

Circle the letter corresponding to the correct answer in each of the following items from questions 11 to 20.

11. The value on the number line represents



- A 1.3
 - B 1.5
 - C 1.6
 - D 1.8
-

12. The sum of angles in a quadrilateral is equal to

- A 90°
 - B 180°
 - C 270°
 - D 360°
-

13. One bottle contains 1.5 litres of water. 6 identical bottles contain litres of water.

- A 9.0
 - B 7.5
 - C 6.0
 - D 4.5
-

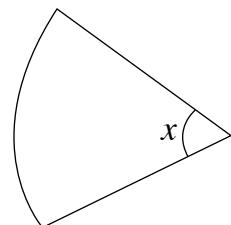
14. Raj buys a mobile phone at Rs 13000. After 5 months, he sold the phone for Rs. 9500. Which of the following statement is correct?

- A Raj made a profit of Rs. 3500.
 - B Raj made a loss of Rs. 3500.
 - C Raj made a profit of Rs. 4500.
 - D Raj made a loss of Rs. 4500.
-

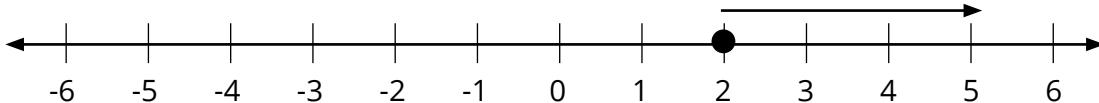
15. A circle is divided into 6 equal sectors. One such sector is shown below.

The value of x is

- A 30°
 - B 45°
 - C 60°
 - D 90°
-



16.



The set of values represented by the arrow on the number line above is given by a

- A $x > 2$
 - B $x < 2$
 - C $x \geq 2$
 - D $x \leq 2$
-

17. Which trigonometric ratio below is correct?

A $\sin\theta = \frac{\text{opposite}}{\text{adjacent}}$

B $\cos\theta = \frac{\text{opposite}}{\text{adjacent}}$

C $\tan\theta = \frac{\text{opposite}}{\text{adjacent}}$

D $\sin\theta = \frac{\text{opposite}}{\text{adjacent}}$

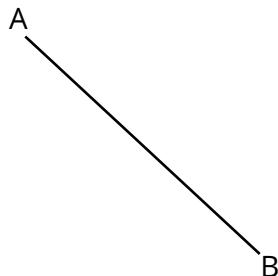
18. The gradient of line AB is

A positive

B negative

C zero

D undefined



19. The formula $C = 2\pi r$ is used to find

A the area of a circle

B the circumference of a circle

C the area of a sector

D the length of arc

20. (1, 2) is a solution of which of the following simultaneous equations ?

A $y = x + 1$ and $y = 2x - 1$

B $y = x + 1$ and $y = x + 2$

C $y = 2x$ and $y = x + 1$

D $y = 2x$ and $y = 2x - 1$

21. Find the H.C. F. of 10, 15 and 20.

Answer:

22. A car covers a distance of 180 km in 3 hours. What is the speed of the car in km/h?

Answer:

23. Simplify $x^{12} \div x^4$

Answer:

24. The following table represents the times taken by four friends to run a 100-metre race.

Name	Time taken in seconds
Rajesh	10.04
Dany	10.12
Shafeeq	10.44
David	10.01

Who came first in the race?

Answer:

25. Find the gradient of the line with equation $3y = -3x + 6$.

Answer:

26. It is given that $v = u + 10t$. Find the value of v when $u = 3$ and $t = 5$.

Answer:

27. Factorise the expression $x^2 - 4$

Answer:

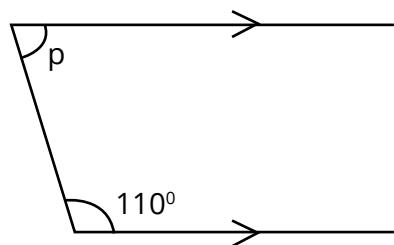
28. Expand $2(m - 7)$

Answer:

29. Find the value of $\sqrt{\frac{9}{16}}$.

Answer:

30. Calculate the value of the angle p .

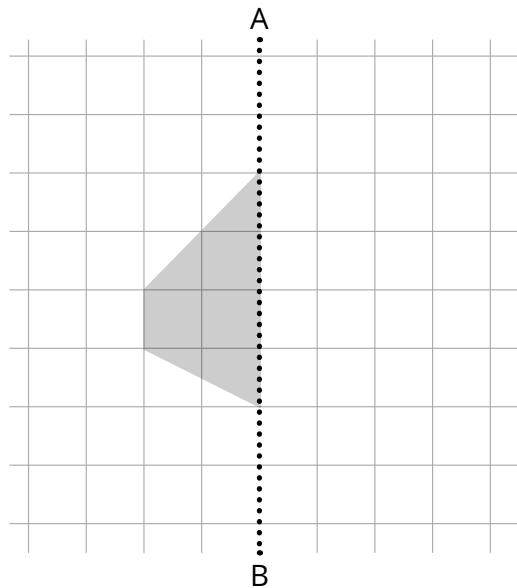


Answer:

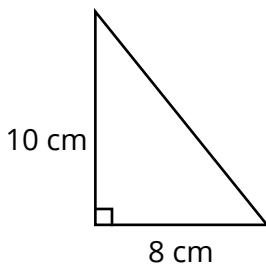
31. Find the size of one exterior angle of a regular pentagon.

Answer:

32. In the diagram below, AB is the line of symmetry. Complete the diagram.



33. Calculate the area of the triangle below.



Answer:

34. Find the **median** of the following set of numbers:

12, 14, 15, 12, 10, 11

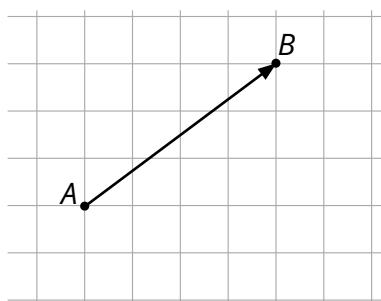
Answer:

35. Work out

$$\begin{pmatrix} 1 & 3 \\ 2 & 4 \end{pmatrix} - \begin{pmatrix} 1 & 2 \\ 3 & 2 \end{pmatrix}$$

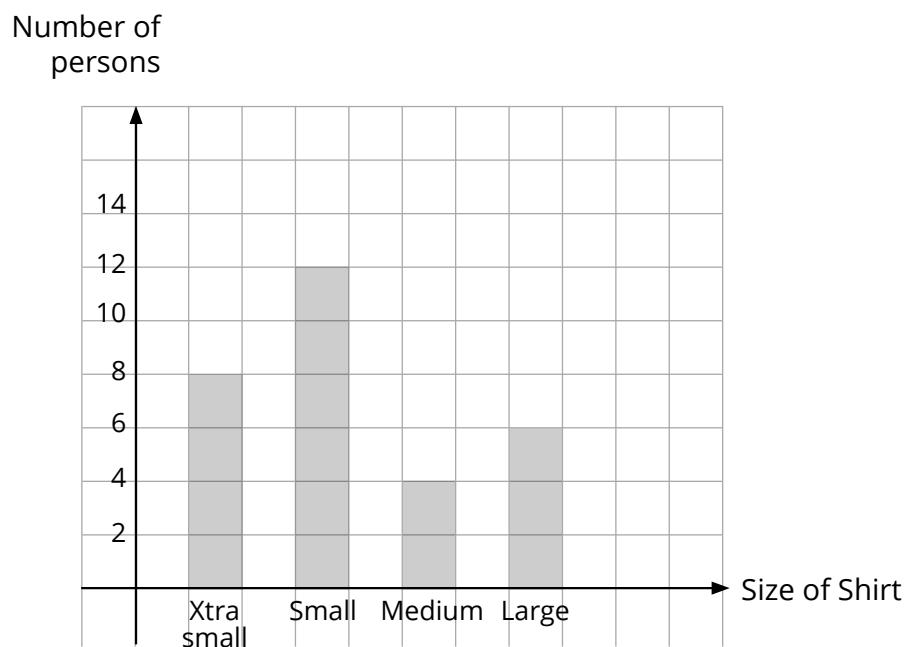
Answer:

36. Write down the column vector representing \vec{AB} .



Answer:

37. The diagram below shows the size of shirts worn by a group of persons during a survey.



How many persons were there **in all** in the survey?

Answer:

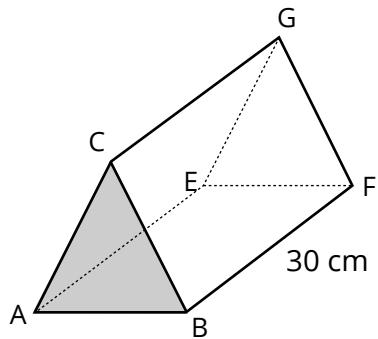
38. A fair die is thrown. Find the probability of obtaining a number greater than 5.

Answer:

39. Given that $a^2 + b^2 = 58$ and $ab = 21$, find the value of $(a+b)^2$.

Answer:

40. The area of the cross section ABC of the prism is 100 cm^2 . Given that the depth of the prism is 30 cm, calculate the volume of the prism.



Answer:
