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MATHEMATICS 2019

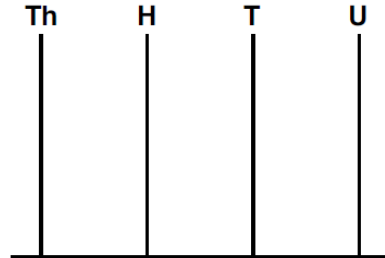
Time 1 hour 30 minutes

Total marks : 100

1. Write in figures :
Five thousand three hundred and sixty one

Answer:

2. Draw beads on the abacus to represent the number 4203.



3. Arrange the numbers below in **descending** order

7482 , 7842 , 7428

Answer:,,

4. Work out

$$\begin{array}{r} 6241 \\ + 3507 \\ \hline \end{array}$$

5. Work out :

$$\begin{array}{r} 8934 \\ - 2516 \\ \hline \end{array}$$

6. Work out :

$$\begin{array}{r} 913 \\ \times 4 \\ \hline \end{array}$$

7. Work out :

$$8 \overline{) 5608}$$

8. Complete the following expansion

$$3476 = (3 \times \dots) + (4 \times 100) + (7 \times 10) + (\dots \times 1)$$

9. Find the missing terms of the sequence.

51, 47, 43,, 35,

10. Find the missing number.

$$5.4 + \boxed{} = 7.6$$

11. Work out :

$$1\frac{2}{5} \times 30$$

Answer:

12. Work out :

$$2.6 + 0.37$$

Answer:

13. Work out :

$$4^2 \div 2^2$$

Answer:

14. Work out the following conversions:

(a) 0.75 L = cL

(b) 300 g = kg

15. Work out:

$$3\frac{1}{6} + 2\frac{2}{3}$$

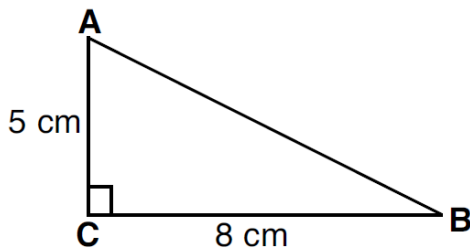
Answer:

16. A bag contains 78 marbles. The marbles are shared **equally** among 13 children.

How many marbles does **each** child get ?

Answer: marbles

17. Calculate the **area** of triangle ABC.



Answer: cm

18. Anju buys a bicycle at Rs 2500.

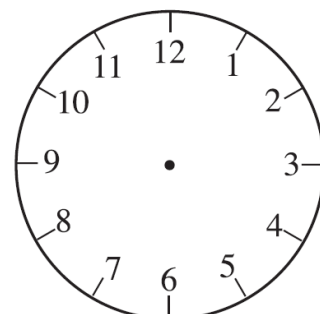
She sells it makes a **loss** of Rs 500.

Find the **selling** price of the bicycle

19. A rod of length 150 cm is cut into two pieces in the ratio 2 : 3.

Calculate the length of the **longer** piece.

20. Draw the hands of the clock to show **quarter to seven**.



Answer: cm

Note: For questions 21 to 34, four answers are given. Only one is correct. Choose the correct answer and draw a circle around the appropriate letter.

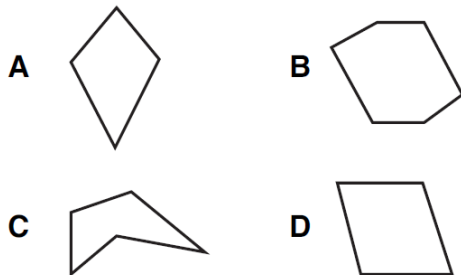
21. Which of the following fractions is the **smallest** ?

- A $\frac{1}{5}$ B $\frac{1}{25}$
 C $\frac{1}{125}$ D $\frac{1}{625}$

22. The place value of 7 in 4.273 is

- A 7 tens B 7 hundreds
 C 7 tenths D 7 hundredths

23. Which one of the following is a **pentagon** ?

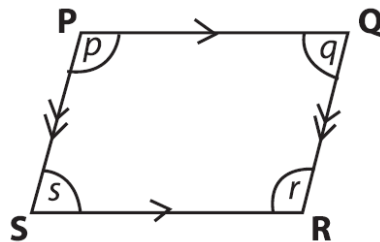


24. The **decimal** form of $\frac{17}{1000}$ is

- A 0.00017 B 0.0017
 C 0.017 D 0.17

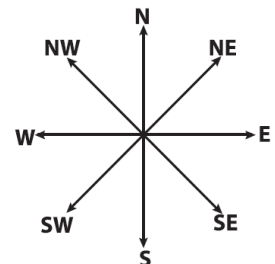
25. **PQRS** is a parallelogram. Which of the following is a pair of **equal** angles ?

- A p and r
 B p and s
 C q and p
 D q and r



26. Raja is facing **West**. He turns in an **anticlockwise** direction to face **South**. Through how many right angle(s) has he turned ?

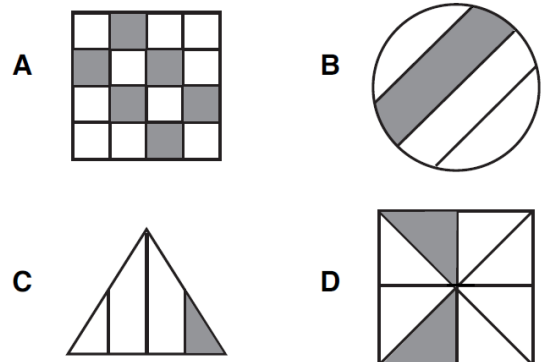
- A 1 right angle
 B 2 right angles
 C 3 right angles
 D 4 right angles



27. Ali has Rs 30 and his brother Bashir has Rs 50 **more** than him. The ratio of Ali's money to Bashir's money is

- A 3 : 5
 B 5 : 3
 C 3 : 8
 D 3 : 2

28. In which of the following $\frac{1}{4}$ is of the shape **shaded** ?



29. Six pens cost Rs 48.
What will be the cost of 4 such pens ?

- A Rs 54
- B Rs 32
- C Rs 24
- D Rs 192

30. Carol is 1m 25 cm tall. Vade is 23 cm **taller** than Carol. What is the height of Vade?

- A 148 cm
- B 125 cm
- C 102 cm
- D 23 cm

31. Alisha has 5 kg 750 g of rice and makes 5 **equal** packets out of it. What is the mass of one packet of rice ?

- A 1 kg 15 g
- B 1 kg 25 g
- C 1 kg 150 g
- D 1 kg 250 g

32. How many line(s) symmetry does an **isosceles** triangle have ?

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

33. The **square** number found between 80 and 90 is

- A 81
- B 84
- C 87
- D 88

34. A car can carry 4 passengers. The **smallest** number of such cars needed to carry 14 passengers is

- A 3
- B 4
- C 7
- D 8

35. Ali has a mass of 64 kg 250g. Raja weighs $6\frac{1}{2}$ kg less than Ali.

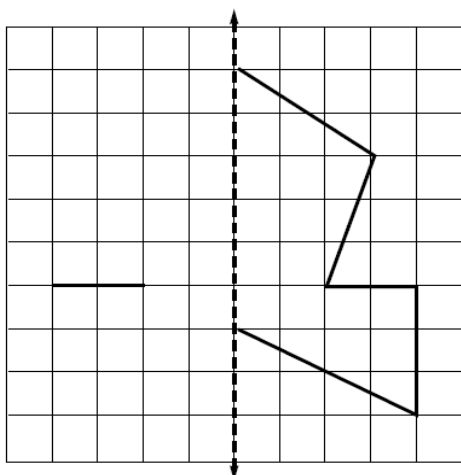
(i) What is the mass of **Raja**?

Answer: kg g

(ii) What is the **total** mass of Ali and Raja?

Answer: kg

36. **Complete** the figure below so that the dotted line is a line of symmetry.



Section B (40 marks)

37. The pictogram below shows the number of pupils who prefer one of the following:

Basketball, Football, Table Tennis, Badminton

(i) Which game is preferred by the **least** number of pupils?


Answer:











(ii) How many pupils prefer **Football**?

Answer: pupils

(iii) What is the total number of pupils in the class?

Answer: pupils

KEY:  represent **3** pupils

GAME	NUMBER OF PUPILS
Basketball	 
Football	   
Table Tennis	
Badminton	  

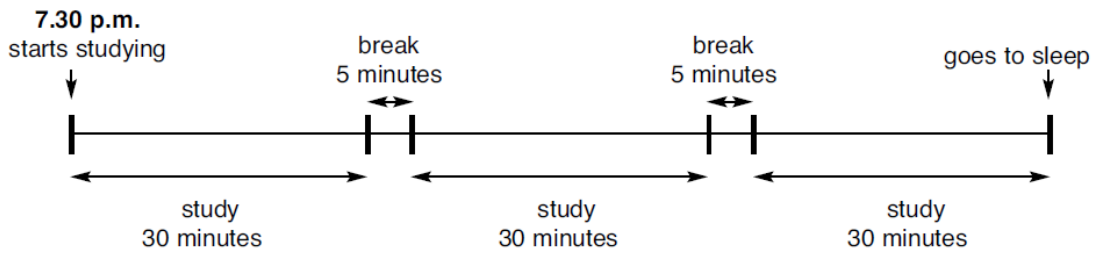
38. (a) Express the following fraction $\frac{25}{15}$ as a **ratio** in its simplest form.

Answer:

(b) The **ratio** of the number of boys to the number of girls in a class is 2 : 3.
If there are 40 pupils in the class, calculate the **number of girls** in the class.

Answer: girls

39. Anna starts studying at 7.30 p.m. on week days. She studies for periods of 30 minutes and takes 5-minute breaks in between, as shown below.



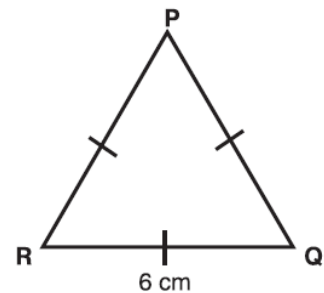
(a) What is the total time Anna spends studying on week days?

Answer:

(b) At what time does Anna go to sleep on week days?

Answer: p.m.

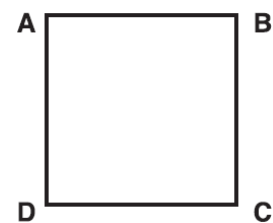
40. (a) Find the perimeter of the **equilateral** triangle **PQR** with side 6 cm.



Answer: cm

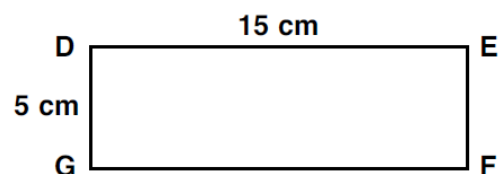
(b) The area of square **ABCD** is 49 cm^2 .

(i) Calculate the length of **AB**



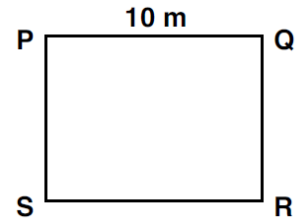
Answer: cm

(ii) Calculate the area of rectangle **DEFG**



Answer: cm²

- (c) Rectangle **PQRS** has perimeter 32 m. The length **PQ** is 10 m.
Calculate the width of the rectangle.



Answer: m

-
41. (a) The masses of 4 objects are 50 g, 70 g, 80g and 80 g, respectively.
Find their average mass.

Answer: g

- (b) The **average** number of stickers Ajay, Carl, and Ravi have is 75.
(i) What is the **total** number of stickers that the 3 children have?

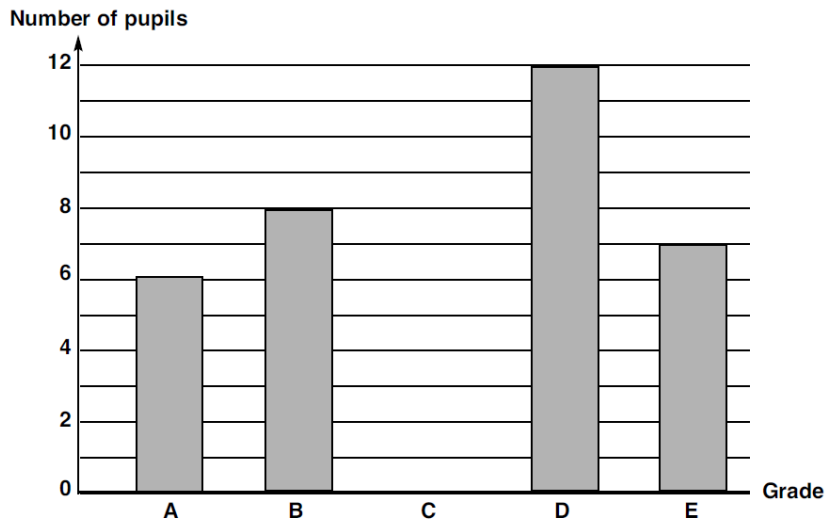
Answer: stickers

- (ii) Ajay has 82 stickers and Carl has 70 stickers.
How many stickers does **Ravi** have?

Answer: stickers

42. The table and the bar chart below show the grades obtained in English by pupils in a class. Study the table and the chart and answer the questions which follow.

Grade	A	B	C	D	E
No. of pupils	6	8	9	12	7



- (i) **Draw** the bar representing the number of pupils who obtained **Grade C** in the space provided on the chart above.
- (ii) Which grade was obtained by the **least** number of pupils ?

Answer: Grade

- (iii) Find the **total** number of pupils in the class

Answer: pupils

- (iv) Express the number of pupils who obtained **Grade E** to the total number of pupils as a **fraction** in its simplest form.

Answer: