

Anglo-Chinese School (Junior)



SEMESTRAL ASSESSMENT 1 (2019)

PRIMARY 5

MATHEMATICS

PAPER 1

Booklet A

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The solution is contributed by Ms Cindy (82639850) – For further enquiries

1. $4872 = 4000 + \boxed{} + 70 + 2$

The missing number in the box is _____.

(1) 8

(2) 80

(3) 800

(4) 8000

(3)

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2. A number has digit 3 in the ones place and thousands place, and digit 1 in the hundred thousands place. Which of the following is the number?

- (1) 3103
- (2) 13 003
- (3) 10 3003
- (4) 13 0003

(3)

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3. Express $\frac{15}{8}$ as a decimal.

(1) 1.5

(2) 1.675

(3) 1.775

(4) 1.875

Use 15 divide 8

(4)

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4. How many ninths are there in $1\frac{2}{3}$?

(1) 5

(2) 7

(3) 13

(4) 15

$5/3$ divide $1/9$

$5/3$ time 9 = 15

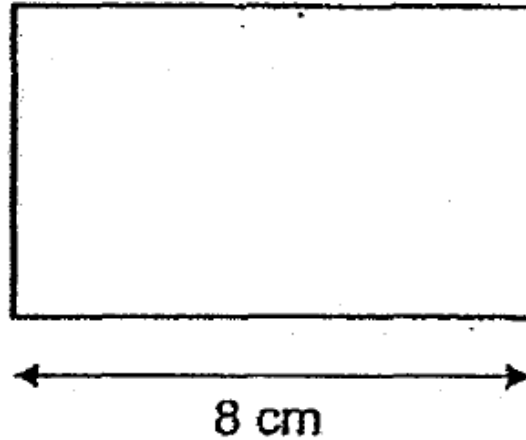
(4)

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5. The area of the rectangle is 48 cm^2 . The length is 8 cm. What is the perimeter?



(2)

- (1) 24 cm
- (2) 28 cm
- (3) 32 cm
- (4) 40 cm

$$48 \text{ divide } 8 = 6$$

$$8+8+6+6 = 28\text{cm}$$

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6. Julie attended her piano lesson in the afternoon. The lesson lasted for 1 h 15 min and ended at 15 00. At what time did the piano lesson start?

(1) 13 30

(2) 13 45

(3) 14 15

(4) 16 15

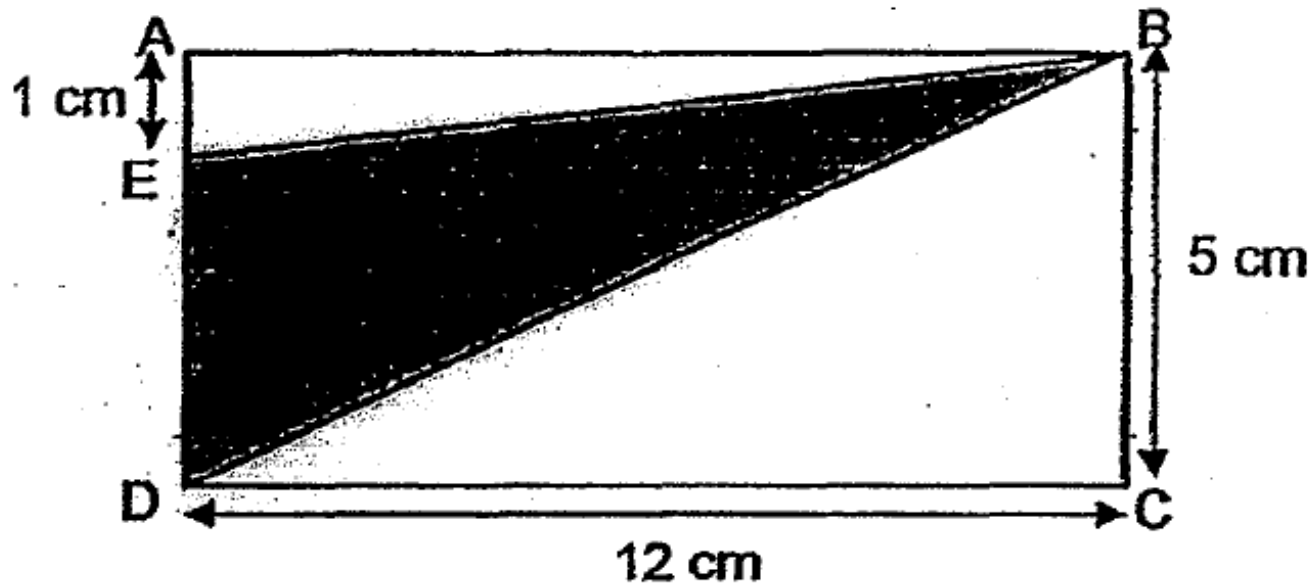
(2)

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7. ABCD is a rectangle. $CD = 12$ cm, $BC = 5$ cm and $AE = 1$ cm. What is the area of triangle BDE?



(1) 24 cm^2

(2) 30 cm^2

(3) 48 cm^2

(4) 60 cm^2

$$4 \times 12 = 48$$

$$48 \text{ divide } 2 = 24$$

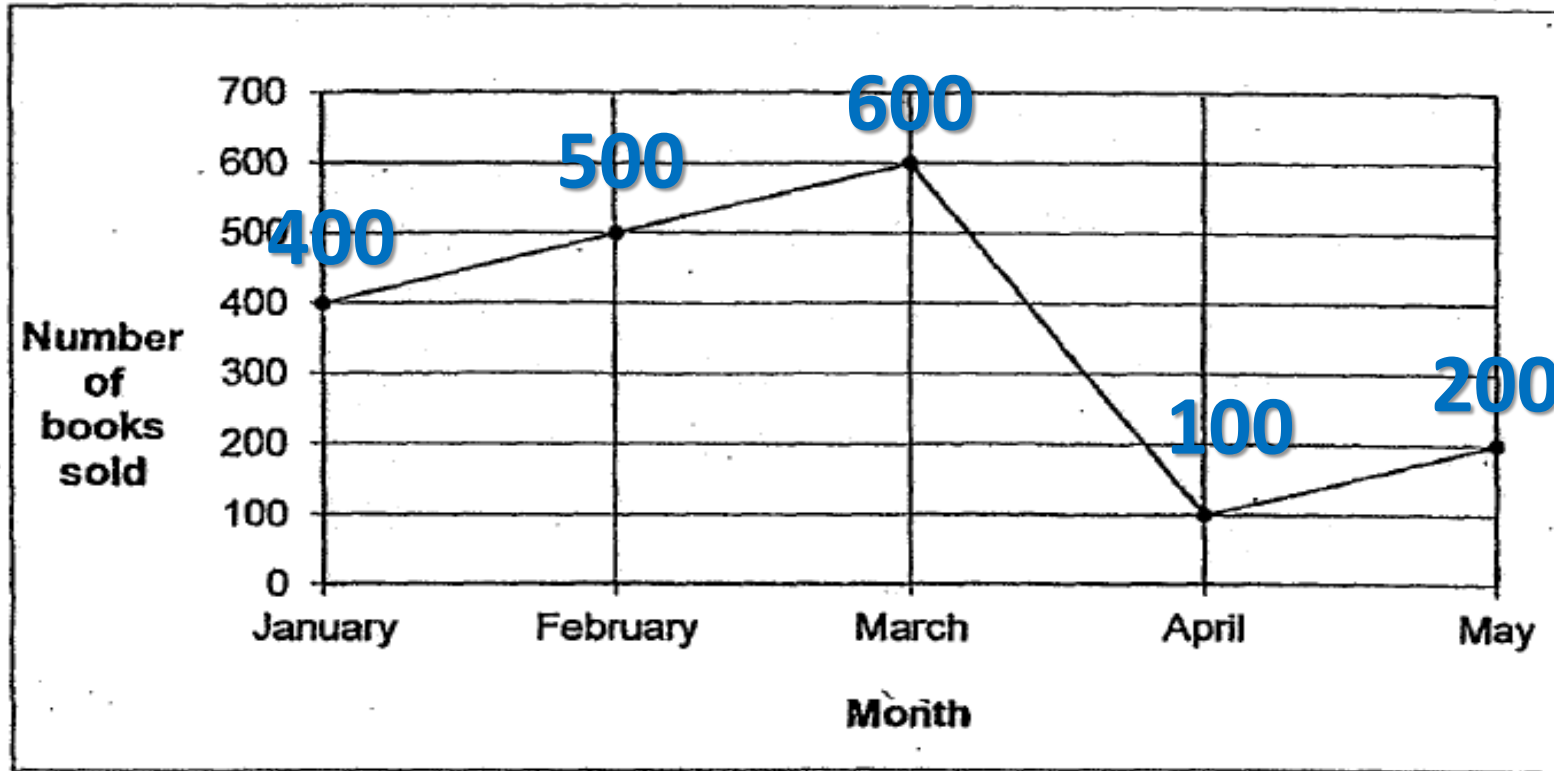
(1)

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- 8. The line graph shows the number of books sold in a book store for the past 5 months.

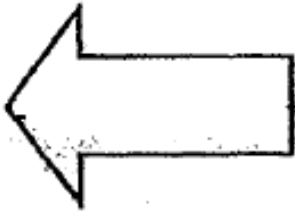


On which two months were a total of 900 books sold?

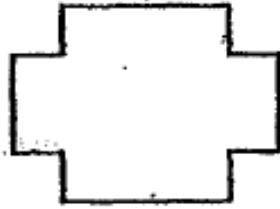
- (1) March and May
- (2) March and April
- (3) February and May
- (4) January and February

(4)

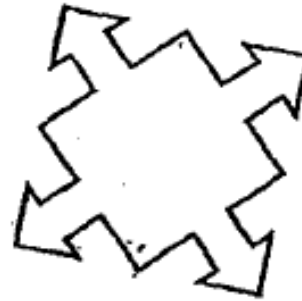
9. Which of the following figures has only one line of symmetry?



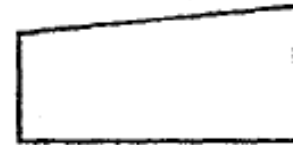
(A)



(B)



(C)



(D)

(1) A

(2) B

(3) C

(4) D

(1)

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10. What is the missing number in the box?

$$14 : 21 = 6 : \boxed{?}$$

(1) 7

(2) 8

(3) 9

(4) 10

14 : 21 (divide by 7)

2 : 3

2:3 (time 3)

6: 9

(3)

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11. The cost of 2 wallets and 2 bags is \$192. A bag cost 3 times as much as a wallet. What is the cost of a bag?

(1) \$24

(2) \$48

(3) \$72

(4) \$96

$$2 \text{ Wallet} + 2 \text{ Bag} = 192$$

$$2 \text{ Wallet} + 3 (2 \text{ Wallet}) = 192$$

$$8 \text{ Wallet} = 192$$

$$\text{Wallet} = \$24$$

(3)

$$1 \text{ Bag} = 24 \times 3 = 72$$

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12. For every 25 buttons Mrs Wong paid for at a shop, she received 5 buttons free. Mrs Wong got 480 buttons from the shop. What was the least number of buttons she paid for?

- (1) 30
- (2) 80
- (3) 320
- (4) 400

$$25 + 5 = 30$$

$$480 \text{ divide } 30 = 16 \text{ sets}$$

$$16 \times 25 \text{ (paid for)} = 400$$

(4)

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13. $\frac{1}{3}$ of the beads in a box are blue. $\frac{1}{6}$ of the remainder are yellow beads and the rest are red beads. What fraction of the beads are red?

(1) $\frac{1}{2}$

(2) $\frac{1}{9}$

(3) $\frac{5}{9}$

(4) $\frac{7}{18}$

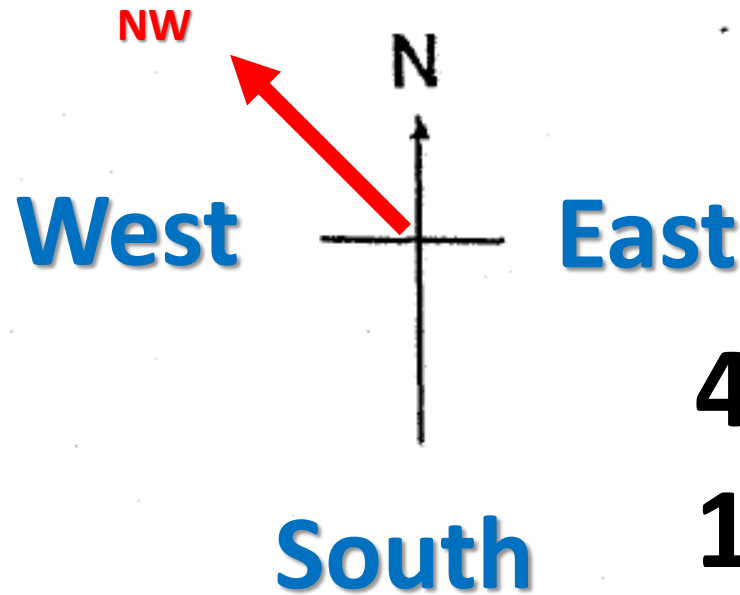
(4)

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14. Ian was facing North-west at first. Through what angle must Ian turn in a clockwise direction to face East?



- (1) 90°
- (2) 135°
- (3) 180°
- (4) 225°

$$45 + 90 =$$

$$135$$

(2)

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15. Linda and Mike had a total of \$92. Linda had \$36. What is the ratio of the amount of money Linda had to the amount of money Mike had?

(1) 9 : 23

(2) 9 : 14

(3) 14 : 9

(4) 14 : 23

$$92 - 36 = 56$$

Linda : Mike

36 : 56

18:28

9 : 14

(2)

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PRIMARY 5

MATHEMATICS

PAPER 1

Booklet B

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16. Find the value of $6 \times 8 + (10 - 7) \div 3$.

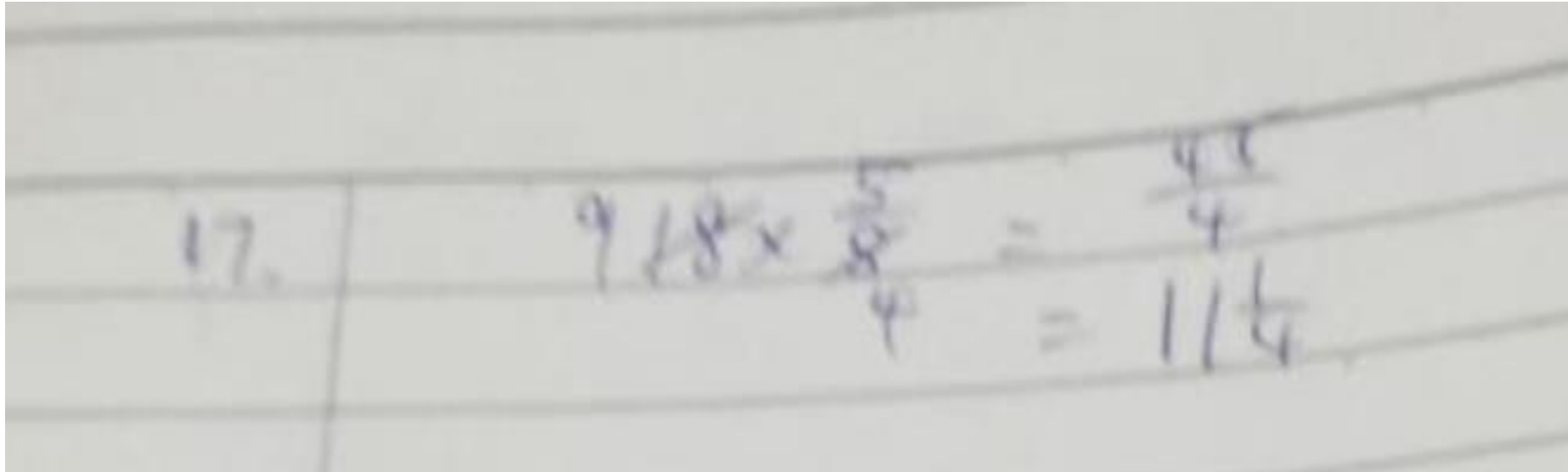
$$\begin{aligned} & 48 + (3 \text{ divide } 3) \\ & = 48 + 1 \\ & = 49 \end{aligned}$$

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17. Find the value of $18 \times \frac{5}{8}$. Give your answer as a mixed number in the simplest form.

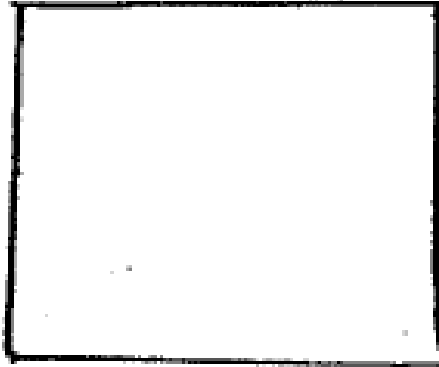


A photograph of a handwritten solution on lined paper. The text is written in blue ink. It shows the calculation $18 \times \frac{5}{8}$ followed by a horizontal line and the result $11\frac{1}{4}$. The fraction $\frac{5}{8}$ is written with a horizontal line over the 5 and a vertical line under the 8. The final answer $11\frac{1}{4}$ is also written with a horizontal line over the 11 and a vertical line under the 1/4.

$$17. \quad 18 \times \frac{5}{8} = \frac{90}{4} = 11\frac{1}{4}$$

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18. The perimeter of a square is 36 m. What is the area of the square?



$$36\text{m divide } 4 = 9\text{m}$$

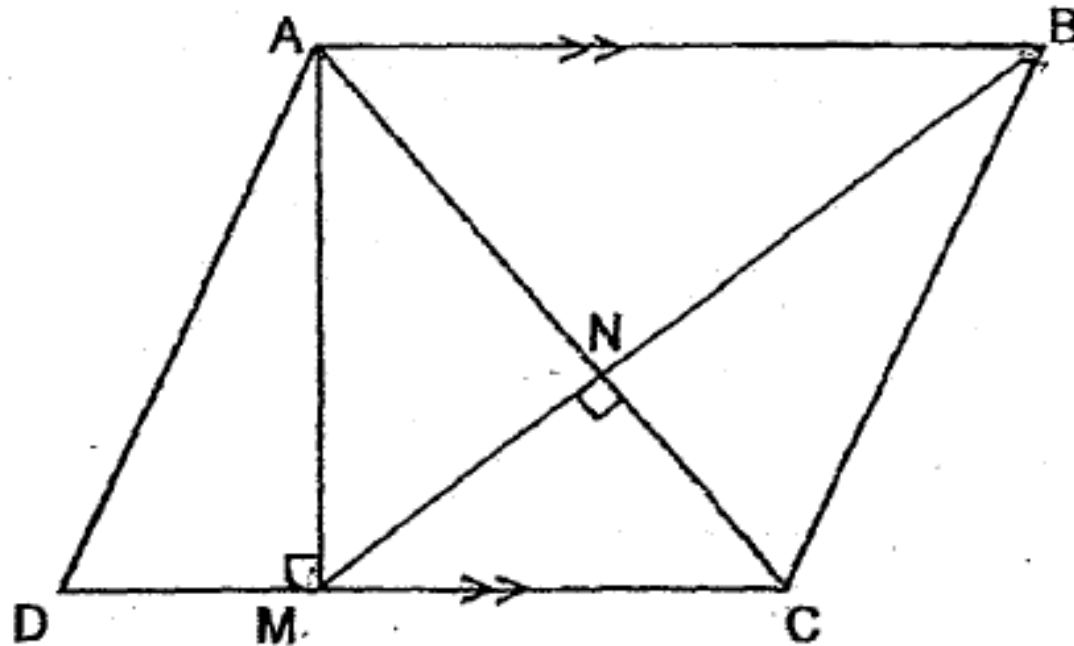
$$9\text{m} \times 9\text{m} = \mathbf{81\text{m}^2}$$

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19. In the figure below, the base of triangle BMC is MC. Which line is the height of triangle BMC.



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20. Dave and Eric shared some sweets in the ratio of 11 : 7. Eric had the 84 sweets. How many sweets did they have altogether?

$$84 \text{ divide } 7 = 12$$

$$11 + 7 = 18$$

$$18 \times 12 = 216 \text{ Sweets}$$

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21. Mrs Dawson bakes some cupcakes. If she packs them equally into boxes of 4, she will have 42 boxes. If she packs them equally into boxes of 6, how many boxes will she have?

$$4 \times 42 = 168$$

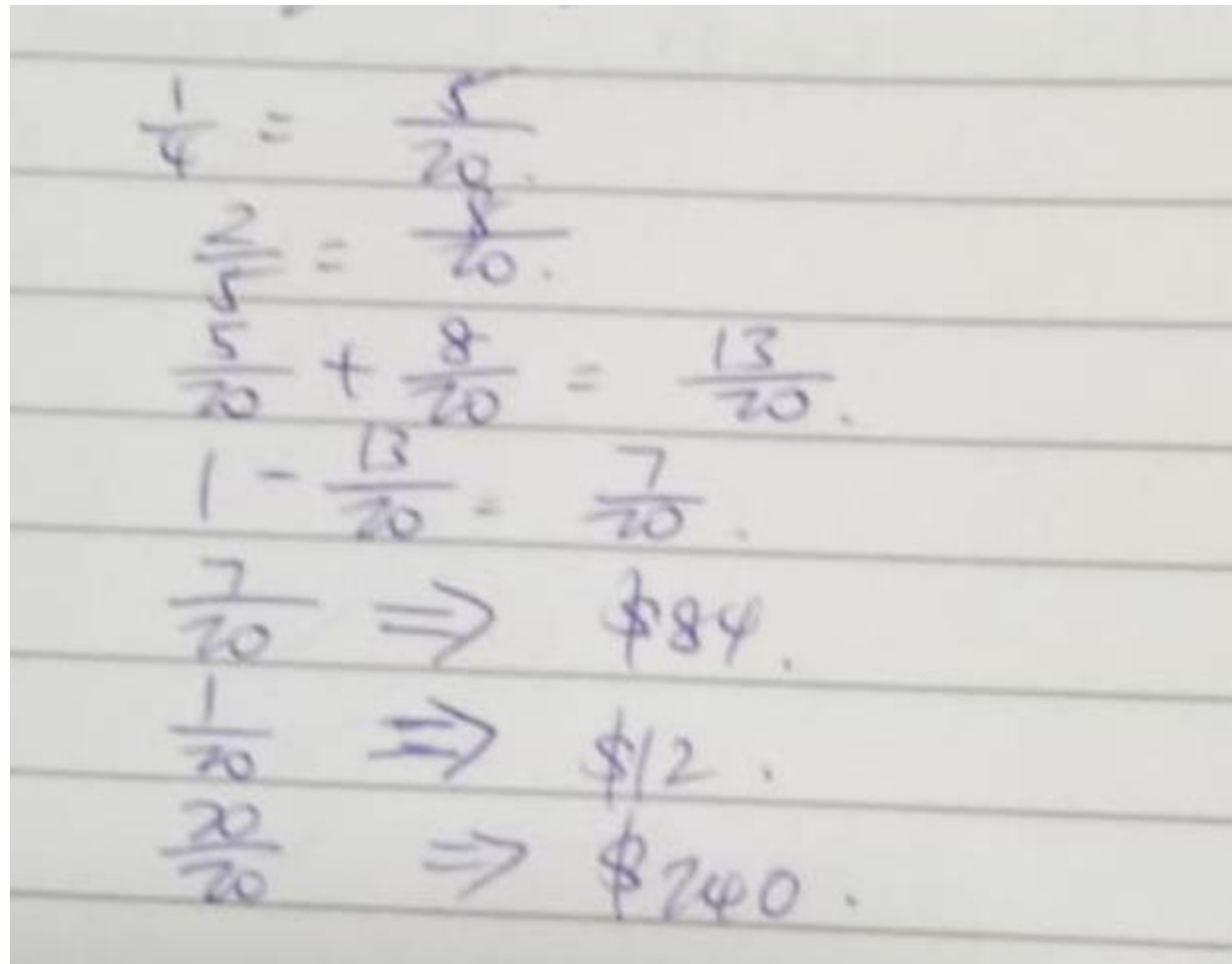
$$168 \text{ divide } 6 = 28 \text{ Box}$$

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22. Rita spent $\frac{1}{4}$ of her money on food and $\frac{2}{5}$ of her money on transport. She had \$84 left. How much money did she have at first?



Handwritten solution for problem 22:

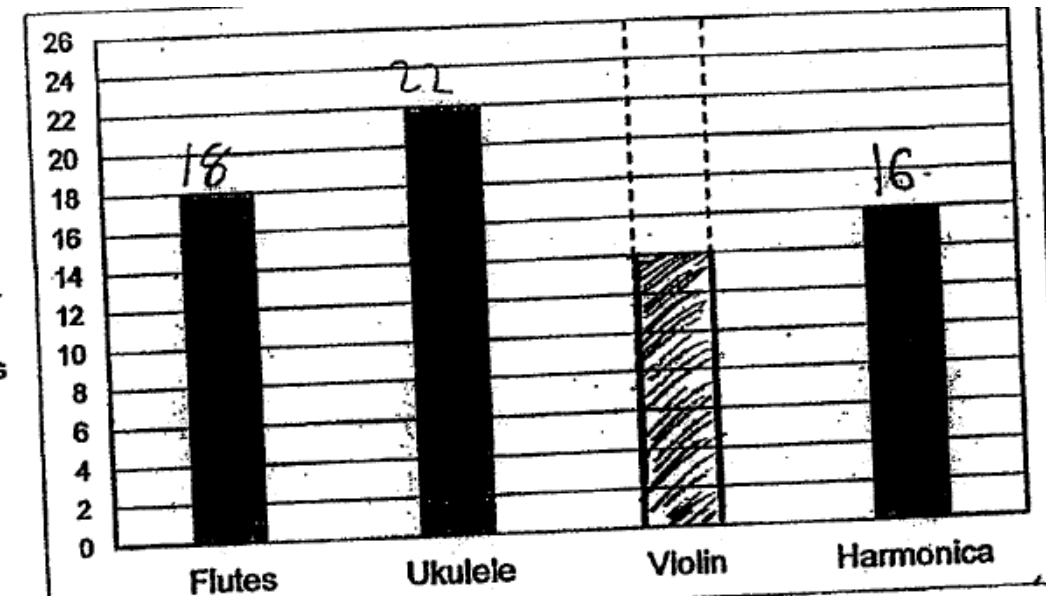
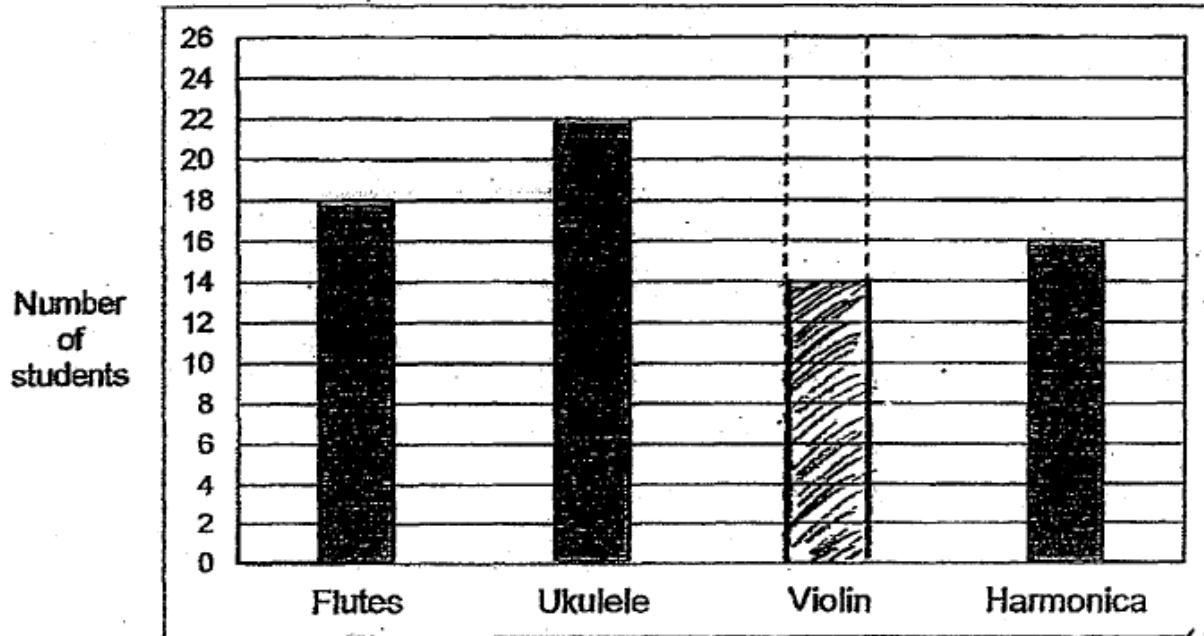
$$\frac{1}{4} = \frac{5}{20}$$
$$\frac{2}{5} = \frac{8}{20}$$
$$\frac{5}{20} + \frac{8}{20} = \frac{13}{20}$$
$$1 - \frac{13}{20} = \frac{7}{20}$$
$$\frac{7}{20} \Rightarrow \$84$$
$$\frac{1}{20} \Rightarrow \$12$$
$$\frac{20}{20} \Rightarrow \$240$$

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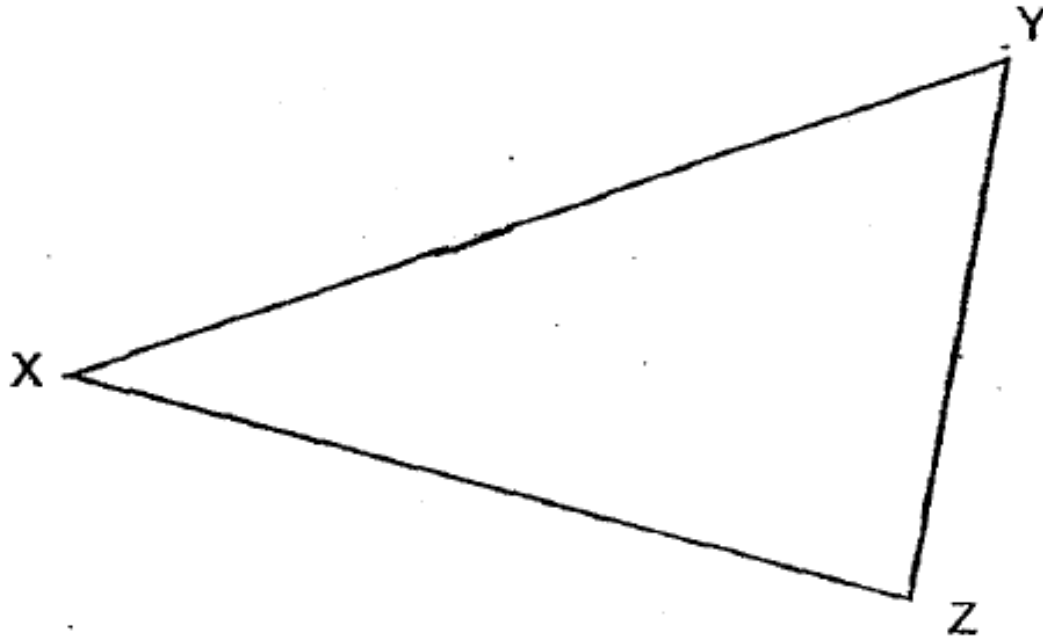
(9850) – For further enquiries

23. The bar graph shows the number of students playing 4 different types of musical instruments during a concert. Each student plays only one type of instrument and $\frac{1}{5}$ of the students play the violin. Draw the bar that shows the number of students who play violin.



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24. Measure and write down the size of $\angle XYZ$.



62 Degree

Ans: _____°

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25. \$5456 is shared among Alice, Betty and Carol in the ratio 5 : 4 : 2. How much more money does Alice have than Betty?

$$5456 \text{ divide } 11 = \$496$$

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26. Two whole numbers add up to 639. What is the smallest difference between the two numbers? Write down these two numbers.

Smallest Difference is 11

Handwritten work on lined paper:

$$\begin{array}{r} 319 \\ \square \end{array} + \begin{array}{r} 320 \\ \square \end{array} = 639$$
$$\begin{array}{r} 321 \\ \square \end{array} - \begin{array}{r} 320 \\ \square \end{array} = \text{difference smallest.}$$
$$319 \approx 320$$
$$321 \approx 320$$

On the right side of the paper:

$$319 + 320 = 639$$
$$310 \quad \underline{\quad\quad\quad} \quad 320$$

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27. Keith spent $\frac{3}{5}$ h watching television programme. He spent $\frac{1}{3}$ h more to take his lunch than watching television programme. How long did he spend on both watching the television programme and lunch? Leave your answer as a mixed number.

TV $\frac{3}{5}$ h

lunch $\frac{1}{3}$ h

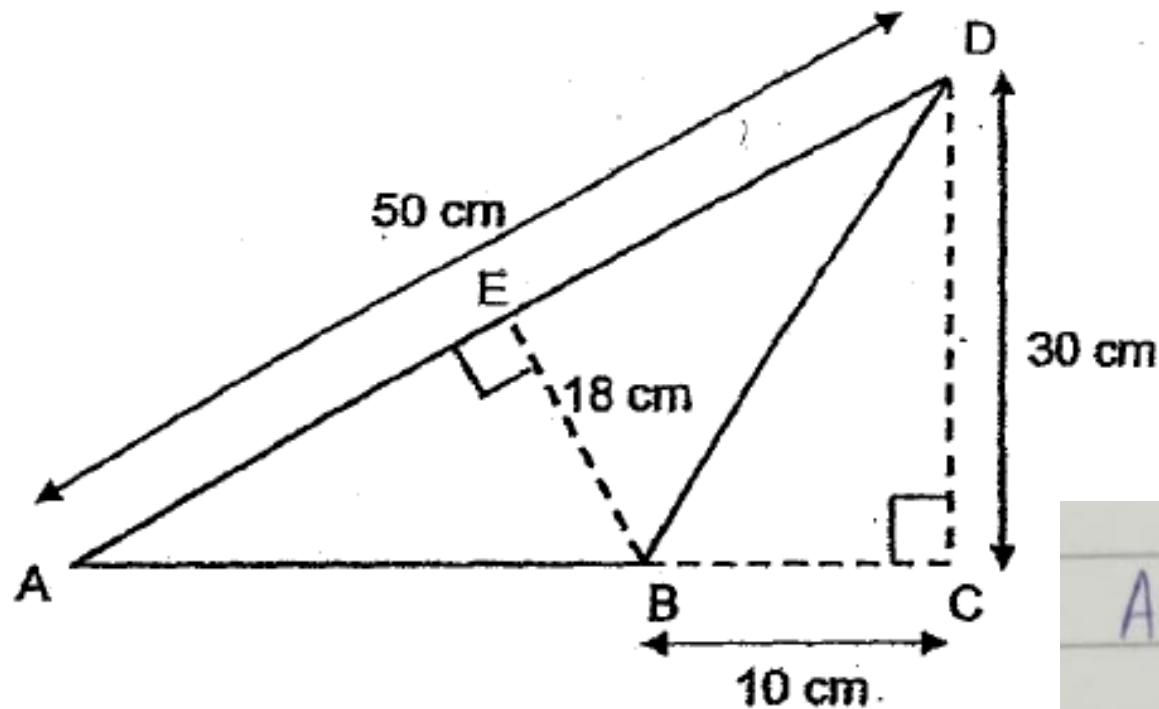
$$\left(\frac{3}{5} \times 2\right) + \frac{1}{3} = \frac{6}{5} + \frac{1}{3}$$
$$= \frac{18}{15} + \frac{5}{15}$$
$$= \frac{23}{15}$$
$$= 1\frac{8}{15}$$

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28. Find the area of the triangle ABD.



$$\begin{aligned}\text{Area of } \triangle ABD &= \frac{1}{2} BH \\ &= \frac{1}{2} \times 50 \times 18 \\ &= 450 \text{ cm}^2\end{aligned}$$

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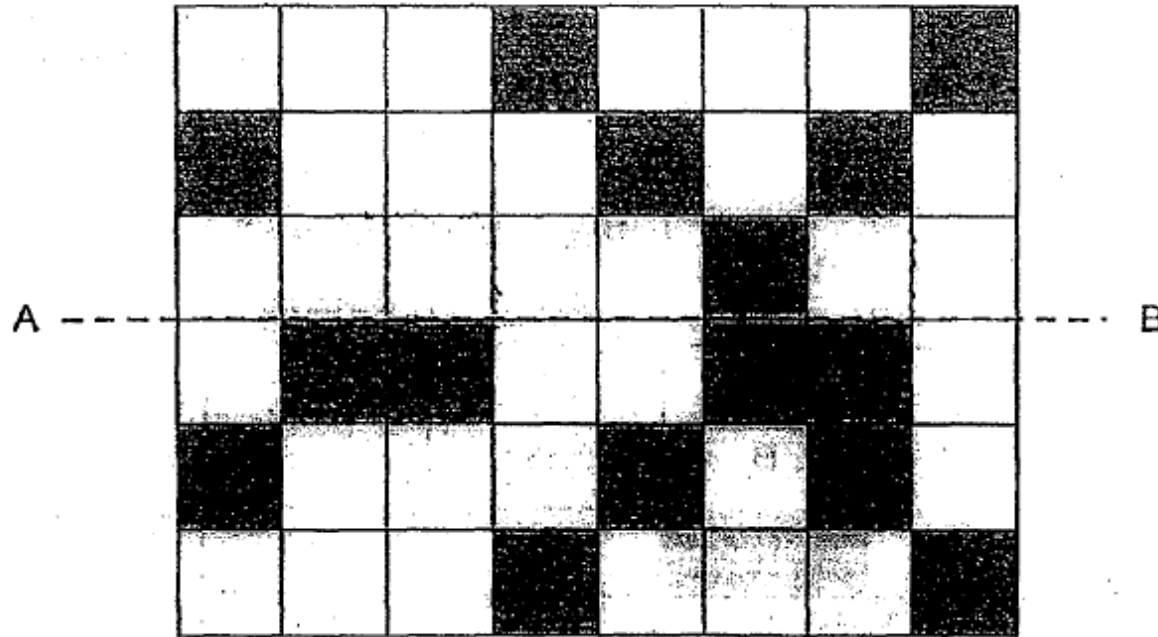
29. Mayer bought 2 apples and 2 oranges for \$2.20. The total cost of 4 apples and 3 oranges was \$3.90. How much did 1 orange cost?

Handwritten solution for problem 29:

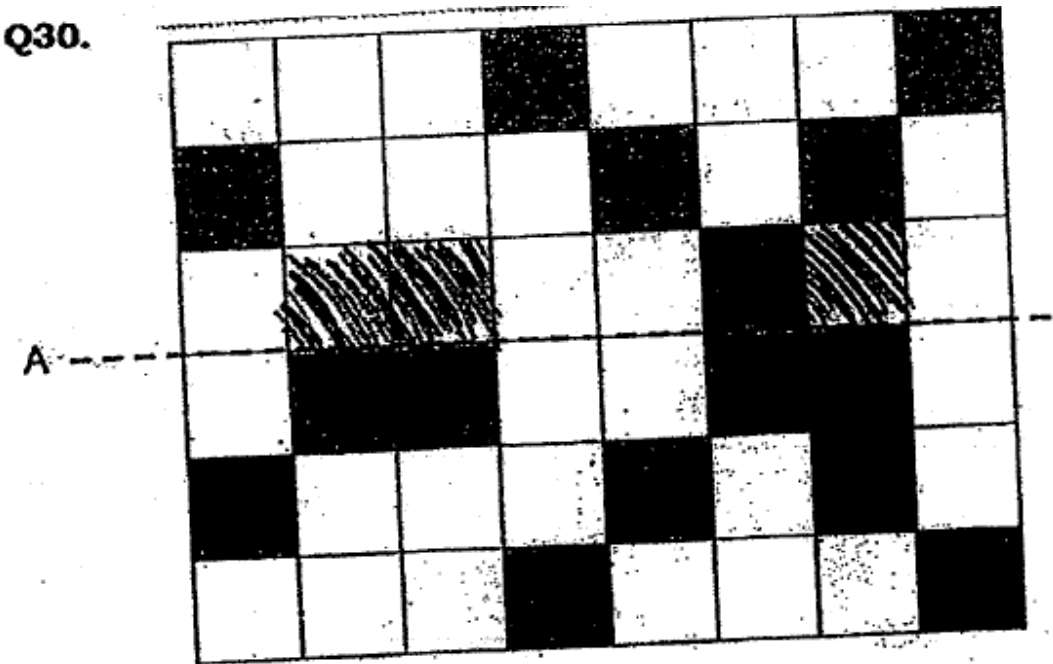
$$\begin{aligned} 2 \text{ apples} + 2 \text{ oranges} &= \$2.20 \\ 1 \text{ apple} + 1 \text{ orange} &= \$1.10 \\ 3 \text{ apples} + 3 \text{ oranges} &= \$3.30 \\ 1 \text{ apple} &= \$0.60 \\ \$1.10 - \$0.60 &= \$0.50 \\ 1 \text{ orange} &= \$0.50 \end{aligned}$$

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30. The diagram below is made up of squares. Shade three more squares to complete the diagram so that the dotted line AB is a line of symmetry.



Q30.



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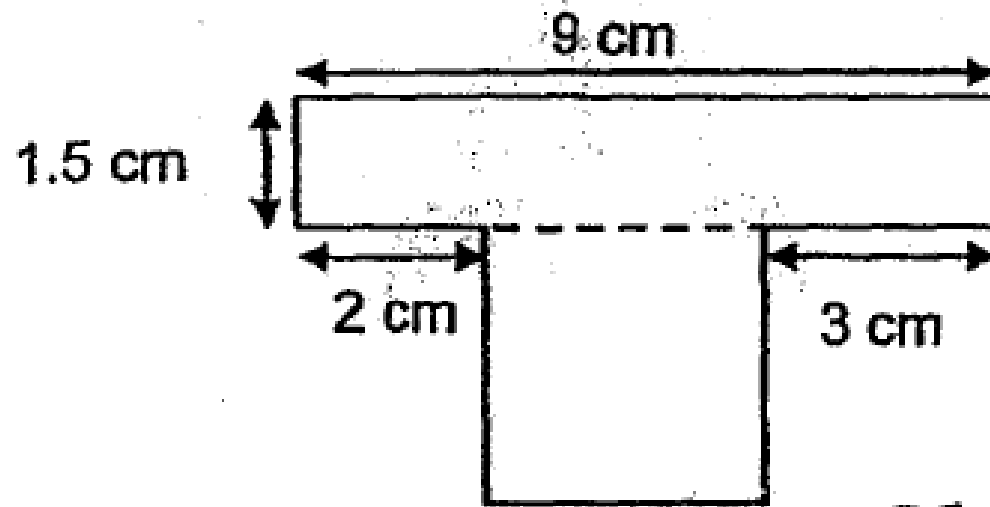
PAPER 2

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1. The figure below is made up of a rectangle and a square. Find the area of the figure.



Q1.

$$9 \times 1.5 = 13.5$$
$$4 \times 4 = 16$$
$$16 + 13.5 = 29.5$$

Ans: 29.5cm²

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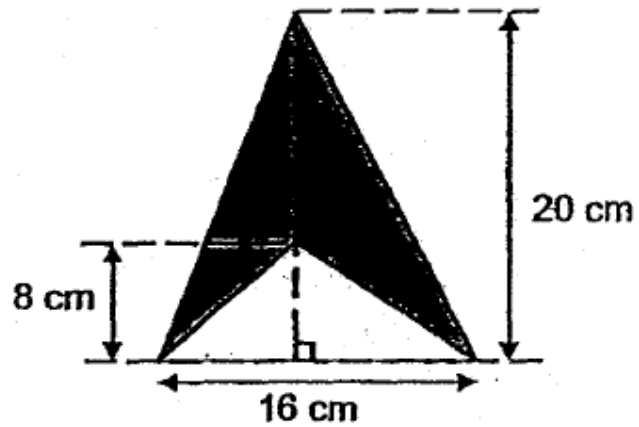
2. James had 4 litres of water. He drank $\frac{2}{5}$ litres of water in the morning and $\frac{7}{8}$ litres of water in the afternoon. How much water had he left? Give your answer in litres.

Q2. $4 - \frac{2}{5} - \frac{7}{8} = 2.725$

Ans: 2.725 l

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3. The figure below is made up of two triangles. Find the area of the shaded part.



Q3. $\frac{1}{2} \times 16 \times 8 = 64$
 $\frac{1}{2} \times 20 \times 16 = 160$
 $160 - 64 = 96$

Ans: 96cm²

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4. Joe, Kenneth and Louis shared a box of cards in the ratio 7 : 9 : 5. Joe and Louis had 384 cards altogether. How many cards did the three boys share altogether?

Q4. J : K : L
7 : 9 : 5
 $12u = 384$
 $1u = 32$
 $21u = 672$

Ans: 672 cards

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5. 5 boys shared the cost of a meal equally. When calculating the amount for each share, the boy who did the calculation made a mistake by dividing the cost of the meal by 4 instead of 5. Each boy paid \$3.60 more than his share. What should be the correct amount for each share?

Q5. $3.60 \times 5 = 18$

$18 \div 4 = 4.50$

$4.50 \times 5 = 22.50$

Ans: \$22.50

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6. Jovan has twice as many marbles as Sean. Herman has 3 times as many marbles as Jovan. Jovan has 240 fewer marbles than Herman. How many marbles do they have altogether?

Q6. $4u = 240$

$1u = 60$

$9u = 540$

Ans: \$540

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7. 2 groups of students were in the hall. The number of students in Group A was 12 more than the number of students in Group B. 25 students moved from Group A to Group B. In the end, the number of students in Group B was 3 times the number of students in Group A. How many students were there in Group A at first?

Q7. $25 - 12 = 13$
 $13 + 13 + 12 = 38$
 $2U = 36$
 $1U = 19$
 $19 + 25 = 44$

Ans: 44 students

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8. $\frac{1}{3}$ of the length of Ribbon X is equal to $\frac{3}{5}$ the length of Ribbon Y. Ribbon X is 240 cm longer than Ribbon Y. Find the total length of Ribbon X and Y.

Q8.	X	Y	
	$\frac{1}{3}$	$\frac{3}{5}$	4U = 240
	$\frac{3}{9}$	$\frac{3}{5}$	1U = 60
			14U = 840
			Ans: <u>840cm</u>

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9. A group of students participated in a quiz. A student must obtain at least a certain score to pass the quiz. The table shows the number of students who obtained the different groups of scores.

Score	Number of Students
0 to 10	3
11 to 20	6
21 to 30	13
31 or more	8

$\frac{3}{10}$ of the students did not pass the quiz. From the table, what was the lowest score of a student who passed the quiz?

Q9. $3 + 6 + 13 + 8 = 30$ students

$30 \div 10 = 3$

$3 \times 3 = 9$

Ans: 21

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10. The ratio of Melvin's age to his mother's age is 1 : 4 this year. Six years ago, his mother was 58 years old. How old is Melvin this year?

$$\text{Q10. } 58 + 6 = 64$$

$$4U = 64$$

$$1U = 16$$

Ans: 16 years old

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11. In a library, there were 972 fiction books. The number of fiction books was 3 times the number of non-fiction books. An equal number of fiction books and non-fiction books were given away to charity. In the end, the number of fiction books was 4 times the number of non-fiction books. How many fiction books were given away?

Q11. F	:	NF	$9U = 972$
3 (X 3)	:	1 (X 3)	$1U = 972 \div 9 = 108$
9	:	3	
(-1)		(-1)	
8	:	2	
4	:	1	
Ans: <u>108 books</u>			

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12. Betty and Diana have 109 coins altogether. Betty has 25 more coins than Diana.

a) How many coins does Diana have?

b) Diana has only 1-dollar coins or 50-cent coins. The total amount of money she has is \$25.50. How many 50-cent coins does she have?

$$\text{Q12. a) } 109 - 25 = 84$$

$$2U = 84$$

$$1U = 42$$

$$\text{b) } 42 \times \$0.50 = 21$$

$$25.50 - 21 = 4.5$$

$$4.5 \div 0.5 = 9$$

$$42 - 9 = 33$$

$$\text{Ans: a) } \underline{42 \text{ coins}}$$

$$\text{b) } \underline{33 \text{ coins}}$$

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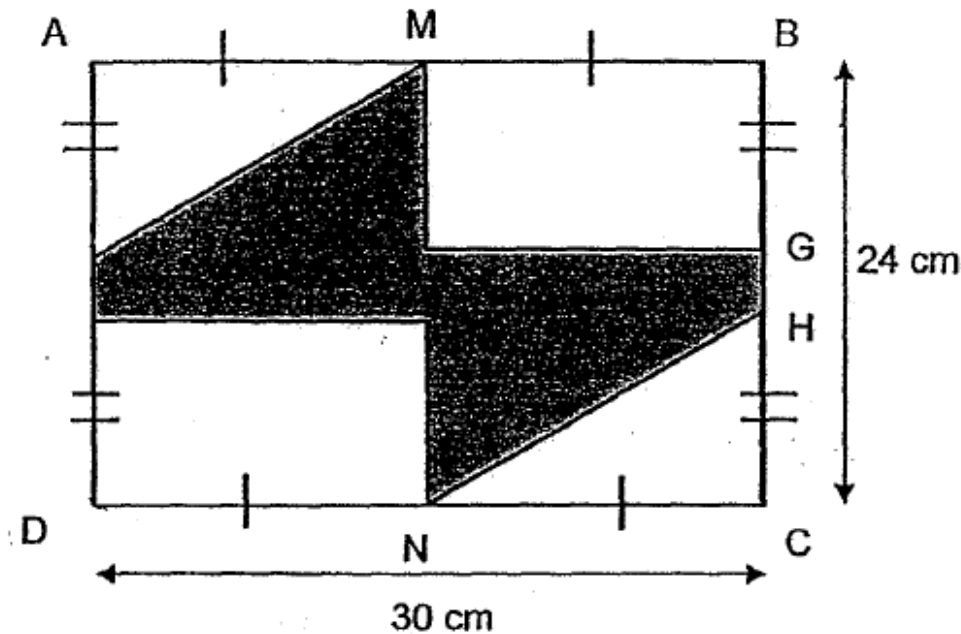
13. $\frac{3}{11}$ of students in a school like Rugby, $\frac{1}{4}$ of the remaining students like Soccer and the rest like Tennis. 348 more students like Tennis than Rugby. How many students are there in the school altogether?

$$\begin{aligned} \text{Q13. } \frac{8}{11} \times \frac{3}{4} &= \frac{6}{11} \\ \frac{3}{11} &\rightarrow 348 \\ \frac{1}{11} &\rightarrow 116 \\ \frac{11}{11} &\rightarrow 1276 \end{aligned}$$

Ans: 1276 students

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14. In the figure below, ABCD is a rectangle. M is the midpoint of AB and N is the midpoint of DC. $AE = FD = BG = HC$ and $EF = GH = 4$ cm. Find the area of the shaded part.



Q14. $30 \times 24 = 720$

$\frac{1}{2} \times 15 \times 10 = 75$

$75 \times 2 = 150$

$15 \times 10 = 150$

$150 \times 2 = 300$

$300 + 150 = 450$

$720 - 450 = 270$

Ans: 270 cm^2

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15. A group of people went to the zoo. $\frac{1}{5}$ of them were adults, $\frac{1}{4}$ of them were girls and the rest were boys.

- a) What was the ratio of the number of adults to the number of girls to the number of boys?
- b) The number of adults was 96 fewer than the total number of girls and boys in the group. Find the total number of people in the group.

$$\text{Q15. a) } 1 - \frac{1}{5} - \frac{1}{4} = \frac{11}{20}$$
$$4 : 5 : 11$$

$$\text{b) } 5 + 11 - 4 = 12$$
$$12U = 96$$
$$1U = 8$$
$$20U = 160$$

$$\text{Ans: a) } \underline{4 : 5 : 11}$$
$$\text{b) } \underline{160 \text{ people}}$$

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16. Natasha used 238 beads to make some necklaces and bracelets. She used 16 beads for each necklace and 9 beads for each bracelet. She made twice as many bracelets as necklaces. After making the necklaces and bracelets, she sold each necklace for \$25 and each bracelet for \$15.

- (a) How many bracelets did Natasha make?
- (b) Natasha sold all the necklaces and bracelets. How much did she collect from the sale of all the necklaces and bracelets?

**Q16. a) 1 group = 1 necklace
 2 bracelets**

$$16 + 9 \times 2 = 34$$

$$238 \div 34 = 7$$

$$7 \times 2 = 14$$

b) $7 \times 25 + 14 \times 15 = 175 + 210 = 385$

Ans: a) 14 bracelets

b) \$385

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17. The chairs in a school hall were arranged in rows such that there were exactly 12 chairs in each row. For a musical, Mr Tan brought in 3 more chairs into the hall and rearranged all the chairs. There are now exactly 9 chairs in each row and 11 more rows than before. How many chairs were there in the concert hall for the musical?

$$\begin{aligned}\text{Q17. } 11 \times 9 &= 99 \\ 99 - 3 &= 96 \\ 96 \div 3 &= 32 \\ 32 + 11 &= 43 \\ 43 \times 9 &= 387\end{aligned}$$

Ans: 387 chairs.

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