

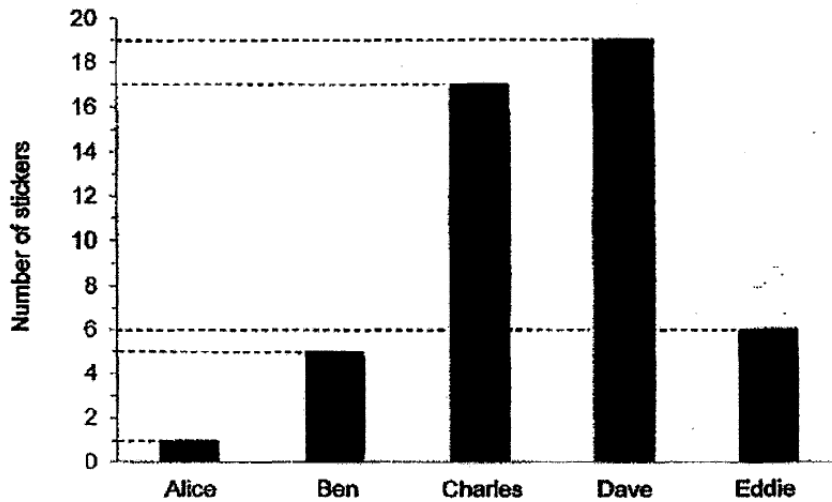
Word Problem Worksheet

P5 Mathematics CA2 2015

References:
P5 2015 Math CA2 papers of NHPS, RS

For each question, show your workings clearly in the space below and write your answer in the space provided. Remember to include the units wherever possible.

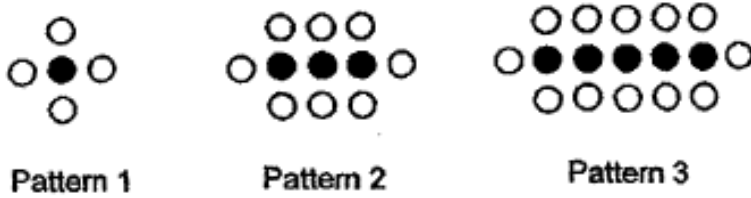
1. The graph below shows the number of stickers owned by 5 friends.



- (a) What is the total number of stickers owned by the 5 friends?
(b) What percentage of all the stickers are owned by Eddie?
(Give your answer to the nearest whole number.)

Ans: (a) _____
Ans: (b) _____

2. The following figures are made up of black and white dots.



(a) Study the pattern above carefully and fill in (i) and (ii) in the table below.

Pattern number	Number of black dots	Number of white dots
1	1	4
2	3	8
3	5	12
:	:	:
6	(i) _____	(ii) _____

(b) In a certain pattern number, the difference between the number of white dots and the number of black dots is 19. Which pattern number is it?

Ans: (a) _____
 Ans: (b) _____

3. In a garden, $\frac{3}{8}$ of the flowers are lilies. $\frac{3}{4}$ of the remainder are orchids.

The rest are tulips. If there are 120 tulips, how many of the flowers are lilies?

Ans: _____

4. $\frac{3}{5}$ of the children who took part in a sports camp were boys. Half of the boys were placed in the soccer group and the rest were in the basketball group. $\frac{3}{8}$ of the girls were placed in the netball group and the rest placed in the floorball group. There were 28 more boys who were in the soccer group than girls in the floorball group.
- (a) How many children were there at the sports camp?
(b) How many more boys than girls were there at the sports camp?

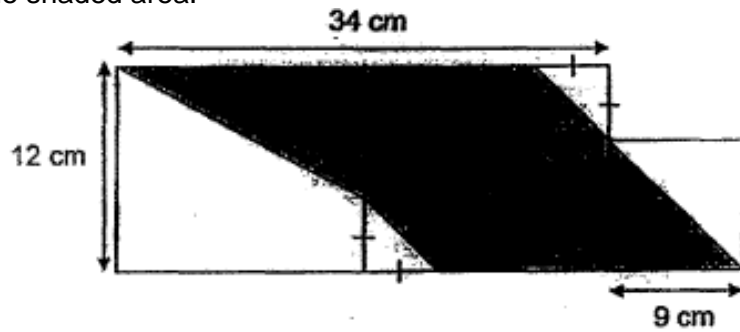
Ans: (a) _____

Ans: (b) _____

5. Muthu's height is $\frac{5}{6}$ of Carol's height. If Carol's height is 132 cm, what is Muthu's height?

Ans: _____

6. The figure below is made up of 2 identical rectangles and a square of side 9 cm. Find the shaded area.

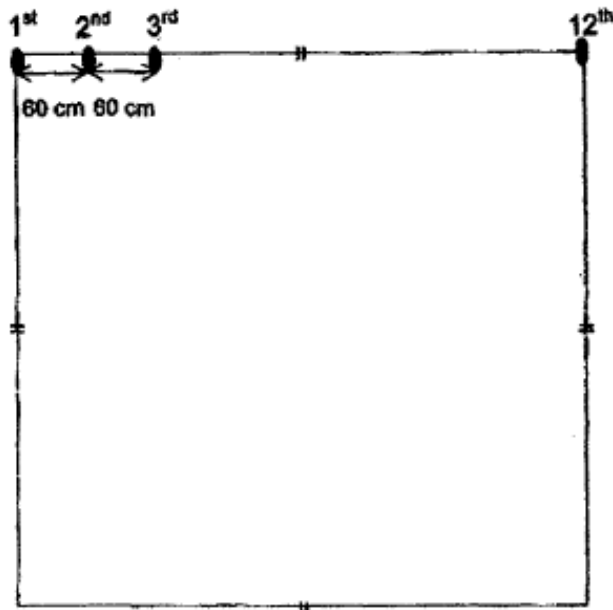


Ans: _____

7. A school paid \$2 787 for its pupils to go on a learning journey to the Singapore Zoo. The cost of an admission ticket for an adult is \$32.50 and for a child is \$21.60. There were 114 more pupils than teachers who went on this learning journey.
- (a) How many teachers went to the Singapore Zoo?
- (b) How many pupils went to th Singapore Zoo?

Ans: (a) _____
 Ans: (b) _____

8. The diagram below, not drawn to scale, shows a square garden.



A gardener planted 12 sunflower seeds along one length of the garden. Each seed is 60 cm apart. Find the perimeter of the garden.

Ans: _____

9. Yannie poured some oil into a tank containing some water. As a result, the oil made up 24% of the mixture. If there were 19 litres of water, what was the total volume of liquid in the tank in the end?

Ans: _____

10. Mr Siva bought a plate of chicken cutlet with $\frac{3}{8}$ of his money. He spent half of the remaining money on a glass of fruit juice.
- (a) What fraction of his money did he spend on the glass of fruit juice?
- (b) If Mr Siva had \$5.25 left, how much did he have at first?

Ans: (a) _____

Ans: (b) _____

11. At first, Helmi's savings was 70% of Ron's savings. After each of them spent \$138 on a pair of headphones, Helmi's savings became 40% of Ron's savings. What was Ron's savings at first?

Ans: _____

12. Lina and Joyce shared some bookmarks in the ration 2 : 3. After Joyce gave 35 bookmarks to Lina, the ratio of Lina's bookmarks to Joyce's bookmarks became 3 : 1. Then, each of them bought the same number of bookmarks. The ratio of Lina's bookmarks to Joyce's bookmarks became 9 : 4 in the end.
- (a) How many bookmarks did Lina and Joyce have altogether at first?
- (b) How many bookmarks did each of them buy?

Ans: (a) _____
Ans: (b) _____

13. Kenny, Liling and Minah were each given the same number of funfair tickets to sell on Saturday. Kenny managed to sell all his tickets. The ratio of the number of funfair tickets sold that day by Minah to Liling to Kenny was 4 : 7 : 8.
- (a) Given that Minah had 84 tickets left, how many funfair tickets did Liling sell?
- (b) What was the total number of funfair tickets given to the 3 children to sell?

Ans: (a) _____

Ans: (b) _____

14. At a nursery, each row had 15 potted plants. When 25 plants dried out, they were removed by the workers. The workers were then able to put 10 potted plants in a row and there were 9 more rows than before. How many potted plants were there at first?

Ans: _____

15. Sue made some cupcakes to give to some cousins.
If she gave 6 cupcakes to each cousin, she would have 4 cupcakes left.
If she gave 9 cupcakes to each cousin, she would need 11 more cupcakes.
(a) How many cousins did Sue have?
(b) How many cupcakes did Sue make?

Ans: (a) _____

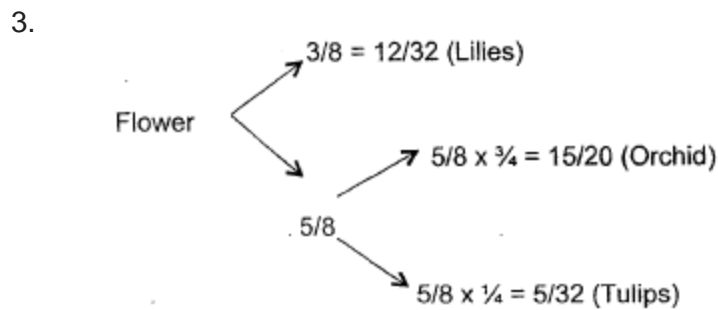
Ans: (b) _____

Answer Key

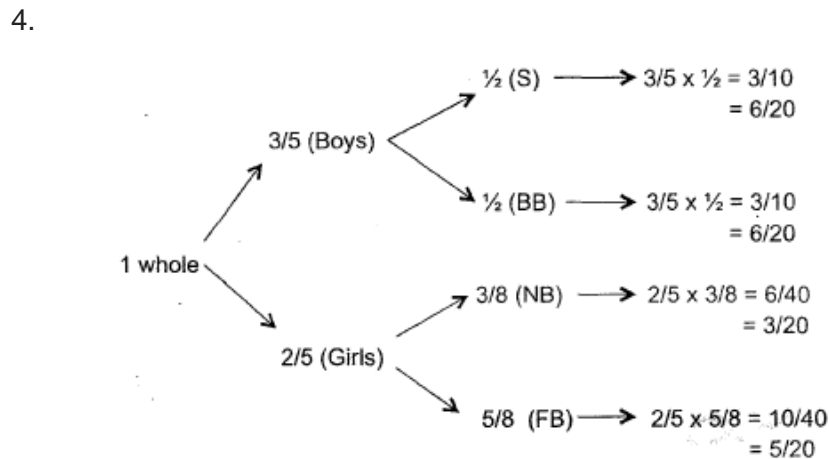
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Subject: Primary 5 Maths – Word Problem
Paper: CA2 2015

1. a) 48
b) $6 \div 48 \times 100\% = 12.5\% \approx 13\%$
2. a) i) 11
ii) 24
b) $19 - 1 = 18$
 $18 \div 2 = 9$



$5u \rightarrow 120$
 $1u \rightarrow 120 \div 5 = 24$
 $24 \times 12 = \underline{288}$



a) $6u - 5u = 1u$
 $1u \rightarrow 28$
 $20u \rightarrow 28 \times 20 = \underline{560}$

b) Boys $\rightarrow 6u + 6u = 12u$
 Girls $\rightarrow 3u + 5u = 8u$
 More $\rightarrow 12u - 8u = 4u$
 $4u \rightarrow 28 \times 4 = \underline{112}$

5. $6u - 132 \text{ cm}$
 $5u - \frac{5}{6} \times 132 = 110 \text{ cm}$

6.
 $9 \times 9 = 81$
 $81 \div 2 = 40.5$
 $\frac{1}{2} \times 3 \times 3 = 4.5$
 $4.5 \times 2 = 90$
 $12 \times 17 = 204$
 $204 - 9 = 195$
 $\frac{1}{2} \times 17 \times 9 = 76.5$
 $76.5 + 195 + 40.5 = 312$
 Ans : 312 cm²

7.
 $21.60 \times 114 = 2462.40$
 $2787 - 2462.40 = 324.60$
 $32.50 + 21.60 = 54.10$

a) $324.60 \div 54.10 = \underline{6}$
 b) $114 + 6 = \underline{120}$

8. $11 \times 60 = 660 \text{ cm}$
 $660 \times 4 = 2640 \text{ cm}$

9. $76\% - 19 \text{ l}$
 $100\% \therefore 100 \div 76 \times 19 = 25 \text{ l}$

10. a) $\frac{5}{8} \times \frac{1}{2} = \frac{5}{16}$
 b) $1 - \frac{5}{16} - \frac{3}{8} = \frac{5}{16}$
 $5u \rightarrow \$ 25$
 $16u \rightarrow \frac{16}{5} \times \$ 5.25 = \$ 16.80 \text{ at first}$

11.

	<u>H</u>	<u>R</u>	<u>Diff</u>
Before :	70%	100%	30%
	140%	200%	60%
	<u>-138</u>	<u>-138</u>	
After :	40%	100%	60%
<hr/>			
	$200\% - 100\% = 100\%$		
	$100u \rightarrow 138$		
	$200u \rightarrow 138 \times 2 = \underline{276}$		

12.

	<u>L</u>	<u>:</u>	<u>J</u>	<u>:</u>	<u>Total (unchanged)</u>	
Before :	2	:	3	:	5) x 4 x 5
	3	:	1	:	4	
	8	:	12	:	20	
	15	:	5	:	20	
	+7	:	-7			

	<u>L</u>	<u>:</u>	<u>J</u>	<u>:</u>	<u>Difference (unchanged)</u>	
After	15	:	5	:	10) x 2
	9	:	4	:	5	
	18	:	8	:	10	
	+3	:	+3			

a) $7u \rightarrow 35$

$1u \rightarrow 35 \div 7 = 5$

$20u \rightarrow 5 \times 20 = \underline{100}$

b) $3u \rightarrow 5 \times 3 = \underline{15}$

13. $4u \rightarrow 84$ tickets

a) $7u \rightarrow \frac{7}{4} \times 84 = 147$ tickets

b) $24u \rightarrow \frac{24}{4} \times 84 = 504$ tickets

14.

$9 \times 10 = 90$

$90 + 25 = 115$

$15 - 10 = 5$

$115 \div 5 = 23$

$23 \times 15 = \underline{345}$

15. $11 + 4 = 15$

$9 - 6 = 3$

a) $15 \div 3 = 5$ cousins

$5 \times 6 = 30$

b) $30 \div 4 = 34$ cupcakes

References:

(Q1,2,5,8,9,10,13,15) = NHPS (Q12,13,6,8,11,15,16,14)

(Q3,4,6,7,11,12,14) = RS (Q10,13,12,16,11,18,15)