

Word Problem Worksheet
& Solutions
Rosyth Paper
P4 Mathematics SA1 2017

Show your working clearly in the space provided for each question and write your answers in the spaces provided.

37. There are 2846 green files at the bookshop. There are twice as many yellow files as green files. How many files are there altogether?

Ans: _____

38. Sharon bought a sofa and dining table for a total of \$3839. The dining table cost \$1455 more than the sofa. How much did the sofa cost?

Ans: _____

39. There was $\frac{3}{4}$ ℓ of lime juice in a container. Amanda poured away $\frac{3}{8}$ ℓ of the lime juice. Her mother then added $\frac{1}{2}$ ℓ of lime juice back into the container. How much lime juice was there in the container at the end? Leave your answer in the simplest form.

Ans: _____

40. Study the figures below.

(a) Tick the figure that is symmetrical along the line AB.

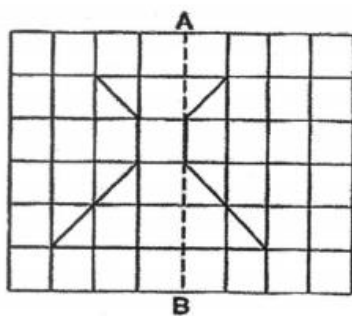


Figure W ☐

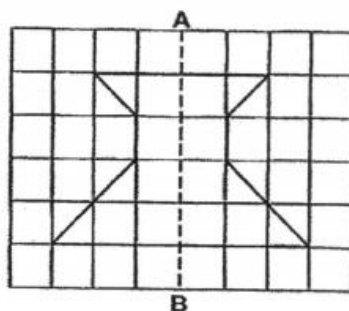
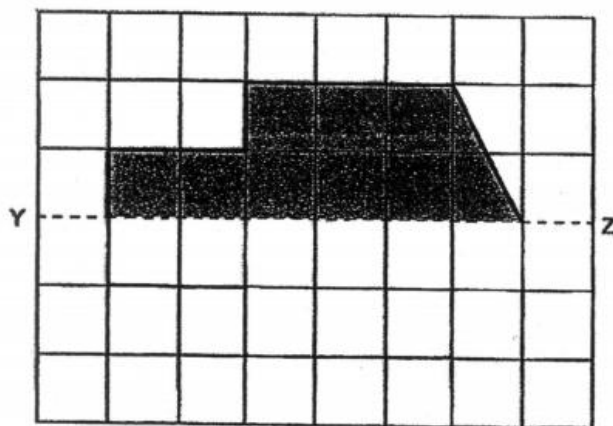


Figure X ☐

(b) Complete the figure below with YZ as the line of symmetry.



Ans: (a) _____

(b) _____

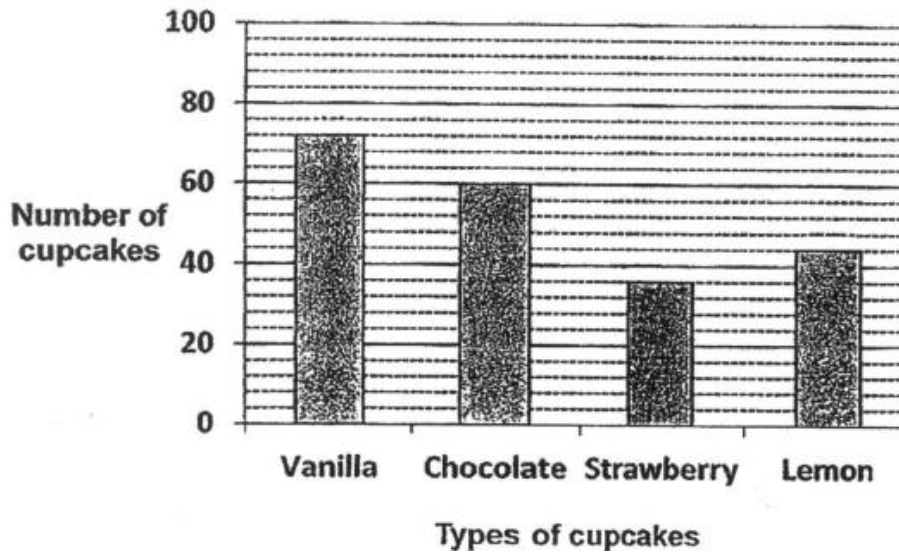
41. There are some coloured beads in a box.
The number of blue beads is thrice the number of green beads.
The number of green beads is 80 fewer than the number of red beads.
There are 2340 beads altogether. How many red beads are there?

Ans: _____

42. At a football match, $\frac{3}{5}$ of the spectators were men and the rest were women. If the total number of spectators is 180, how many more men than women were there?

Ans: _____

43. Vanessa sold four types of cupcakes at a school fair. The bar graph below shows the different number of cupcakes.
- (a) Which type of cupcake did Vanessa sell the most?
- (b) If each Vanilla cupcake costs \$4 and each chocolate cupcake cost \$3, what was the total amount of money collected from the sale of vanilla and chocolate cupcakes?



Ans: (a) _____

(b) _____

44. Mr Wee and his son's age are in multiples of 9. In 20 years' time their total age will be 85 years. His son is not more than 10 years old now. Find Mr Wee's age.

Ans: _____

Answer Key

Subject: Primary 4 Maths – Word Problems
Paper: SA1 2017 Rosyth

37. 8538

38. \$1192

39. $\frac{7}{8}$ l

40. a) Figure X

41. 532

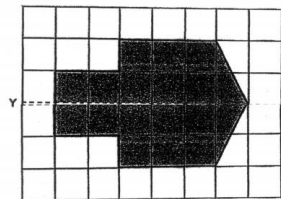
42. 36

43. a) Vanilla

44. 36

b)

b) \$468



Show your working clearly in the space provided for each question and write your answers in the spaces provided.

37. There are 2846 green files at the bookshop. There are twice as many yellow files as green files. How many files are there altogether?

$$\text{Number of yellow files} = 2846 \times 2 = 5692$$

$$\text{Total number of files} = 2846 + 5692 = 8538$$

Ans: 8538

38. Sharon bought a sofa and dining table for a total of \$3839. The dining table cost \$1455 more than the sofa. How much did the sofa cost?

Let u = cost of sofa

Excess = 1455

$$2u = 3839 - 1455$$

$$u = 2384 \div 2 = \$1192$$

Ans: \$1192

39. There was $\frac{3}{4}$ ℓ of lime juice in a container. Amanda poured away $\frac{3}{8}$ ℓ of the lime juice. Her mother then added $\frac{1}{2}$ ℓ of lime juice back into the container. How much lime juice was there in the container at the end? Leave your answer in the simplest form.

At the end, the volume of lime juice = $\frac{6}{8} - \frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ ℓ

Ans: $\frac{7}{8}$ ℓ

40. Study the figures below.

(a) Tick the figure that is symmetrical along the line AB.

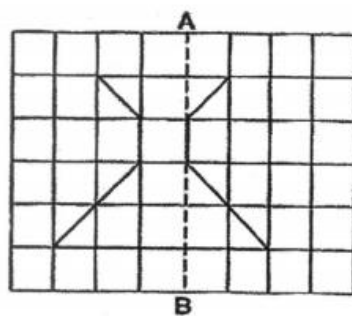


Figure W ☐

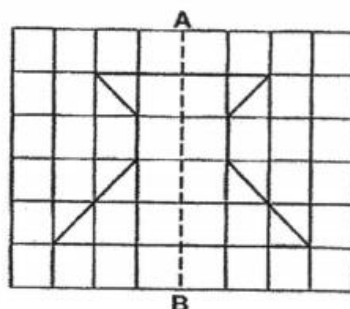
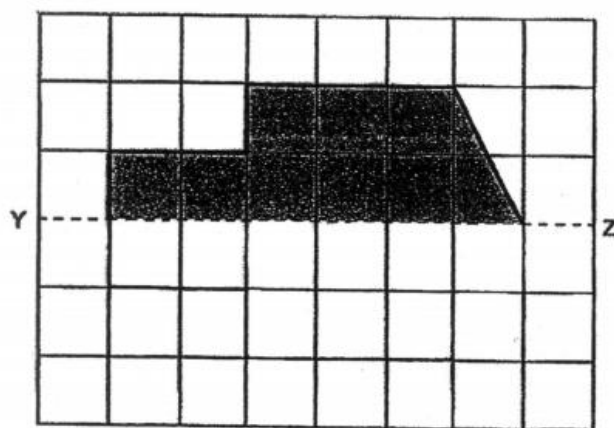
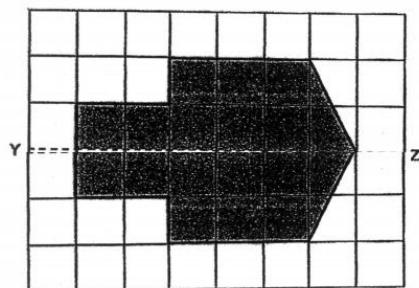


Figure X ☐

(b) Complete the figure below with YZ as the line of symmetry.



(a) Figure X



(b)

Ans: a) Figure X
b) see above

41. There are some coloured beads in a box.
The number of blue beads is thrice the number of green beads.
The number of green beads is 80 fewer than the number of red beads.
There are 2340 beads altogether. How many red beads are there?

Let u = number of green beads

Number of blue beads = $3u$

Number of red beads = $u + 80$

$$u + 3u + u + 80 = 2340$$

$$5u = 2340 - 80 = 2260$$

$$u = 2260 \div 5 = 452$$

$$\text{Number of red beads} = 452 + 80 = 532$$

Ans: 532

42. At a football match, $\frac{3}{5}$ of the spectators were men and the rest were women. If the total number of spectators is 180, how many more men than women were there?

$$\text{Let } u = \frac{1}{5}$$

$$\text{Number of men spectators} = 3u$$

$$\text{Number of women spectators} = 2u$$

$$3u + 2u = 180$$

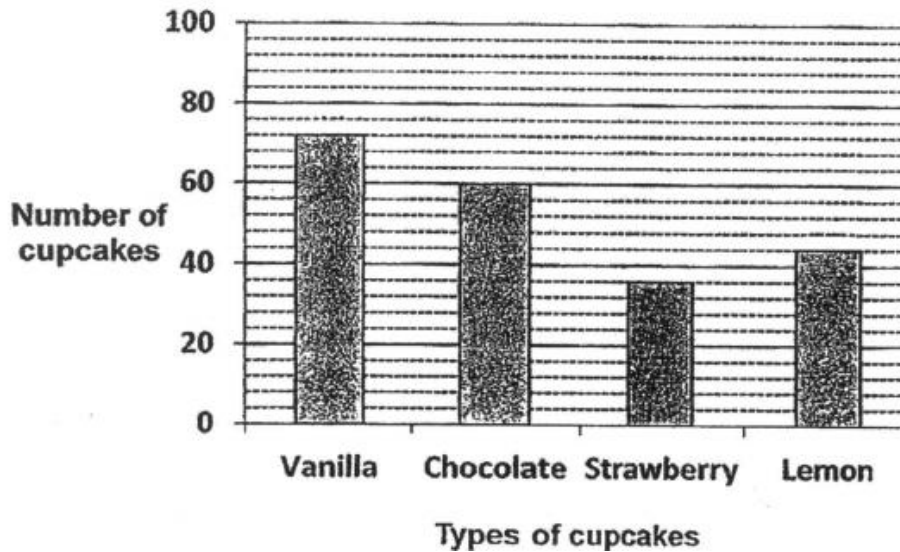
$$5u = 180$$

$$u = 180 \div 5 = 36$$

$$\text{Difference} = 3u - 2u = u = 36$$

Ans: 36

43. Vanessa sold four types of cupcakes at a school fair. The bar graph below shows the different number of cupcakes.
- (a) Which type of cupcake did Vanessa sell the most?
- (b) If each Vanilla cupcake costs \$4 and each chocolate cupcake cost \$3, what was the total amount of money collected from the sale of vanilla and chocolate cupcakes?



- (a) Vanilla
- (b) Total sales = $72 \times 4 + 60 \times 3 = \468

Ans: (a) Vanilla

(b) \$468

44. Mr Wee and his son's age are in multiples of 9. In 20 years' time their total age will be 85 years. His son is not more than 10 years old now. Find Mr Wee's age.

$$\text{Current total age} = 85 - 20 - 20 = 45$$

Son's age is 9 years old.

$$\text{Mr Wee's age} = 45 - 9 = 36$$

Ans: 36
