

Word Problem Worksheet
& Solutions
For Rosyth Paper
P5 Mathematics CA1 2018

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

4. Extra sweets = $2 \times (15 - 3) = 24$

Original number of sweets each = $24 \div 3 = 8$

At first, number of sweets Joel had = $8 \times 15 = 120$

Ans: 120 sweets

5. Distance between 2 consecutive positions = $3.6 \div 2 = 1.8$ m

Number of positions between Issac and first position = $27 \div 1.8 = 15$

Isaac's position = $15 + 1 = 16^{\text{th}}$

Ans: 16^{th}

6. Let cost of each chair = u

Cost of each table = $\frac{5}{3}u$

$$\text{Total cost} = 5 \times \frac{5}{3}u + 23u = \$2444$$

$$\frac{25}{3}u + \frac{69}{3}u = 2444$$

$$\frac{94}{3}u = 2444$$

$$u = 2444 \times 3 \div 94 = \$78$$

Ans: \$78

7. a)

Factors of 24 = 1, 2, 3, 4, 6, 8, 12

Factors of 32 = 1, 2, 4, 8, 16

Common factors = 1, 2, 4, 8

b)

Length of largest square = 8 cm

Area of largest square that he can cut = $8 \times 8 = 64 \text{ cm}^2$

Ans: 64 cm^2

8. a)
Number of \$5 notes taken out = $545 \div 5 = 109$
At the end, difference between number of \$5 and \$10 notes = $109 - 46 = 63$

At the end,
Number of \$5 notes = u
Number of \$10 notes = $8u$
Difference = $8u - u = 7u = 63$
 $u = \text{number of } \$5 \text{ notes} = 9$

Number of \$5 notes at first = $u + 109 = 9 + 109 = 118$

- b)
Number of \$10 notes at first = $118 - 46 = 72$

Total amount left = $72 \times 10 + 9 \times 5 = \765

Ans: (a) 118 \$5 notes
(b) \$765

For Questions 4 to 8, show your workings clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets () at the end of each question or part-question. For questions which require units, give your answers in the units stated.

(19 marks)

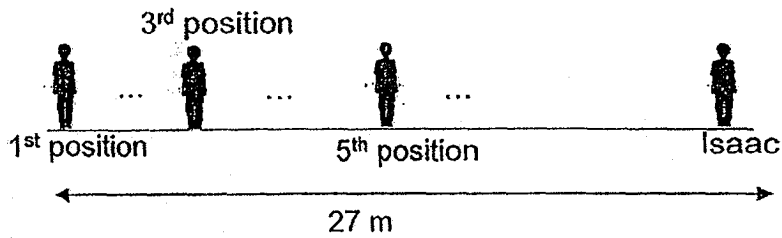
4. Joel invited 15 friends to his birthday party. He wanted to give each friend an equal number of sweets. However, on his birthday, 3 friends did not turn up for his party. Joel gave the sweets away to the remaining friends. Each friend had an extra of 2 sweets. How many sweets did Joel have at first?

Ans: _____ [3]



5. Some boys were standing along a straight line at equal distance apart. The distance between the third and the fifth boy was 3.6 m. Isaac was 27 m from the first boy. At which position was Isaac standing? .

Do not write
in this space



Ans: _____ [3]



6. Gopal spent \$2 444 on 5 tables and 23 chairs. The cost of 3 tables is the same as 5 chairs. Find the cost of one chair.

Ans: _____ [4]

7. Marcus has a piece of paper 32 cm long and 24 cm wide.

- (a) List down all the common factors of 24 and 32.
- (b) Marcus wants to cut the piece of paper into squares of equal size without any left over. What is the largest area of the square that he can cut out from the piece of paper?

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Ans: (a) _____ [2]

Ans: (b) _____ [2]

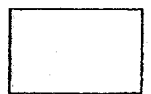


8. Ahmad had 46 more \$5 notes than \$10 notes in his piggy bank. He took out some \$5 notes. The total amount of \$5 notes he took out was \$545. In the end, he had 8 times as many \$10 notes as \$5 notes.

- (a) How many \$5 notes did Ahmad have at first?
- (b) How much money did Ahmad have left in his piggy bank?

Do not write in this space

Ans: (a) _____ [3]
(b) _____ [2]



End of Paper