

Word Problem Worksheet
& Solutions
ACS
P4 Mathematics CA1 2017

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

36. Barker Cake Shop baked 4 352 tarts. The tarts were packed into 70 large boxes of 29 tarts each and the rest into small boxes of 9 tarts each.

- (a) How many tarts were packed into the large boxes?
- (b) How many small boxes of 9 tarts were there?

Ans: (a) _____

(b) _____

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37. At a stationery fair, Matthew bought 2 identical pencil cases and 3 identical marker pens for \$21.10. Kelvin bought 4 identical pencil cases and 5 identical marker pens for \$38.50. How much did 1 marker pen cost?

Ans: _____

38. Rachel took 1h 50 min to complete her homework. Joel took 40 min longer to complete the same homework.
- (a) How long did Joel take to complete his homework? Give your answer in hours and minutes.
 - (b) If Rachel completed her homework at 17 35, what time did she start doing her homework? Leave your answer in 12 h format.

Ans: (a) _____

(b) _____

39. Joseph had a collection of blue, green and yellow buttons. $\frac{1}{6}$ of the buttons were green, $\frac{2}{5}$ of the remaining buttons were yellow and the rest were blue.
- (a) What fraction of the buttons were blue? Give your answer in the simplest form.
 - (b) If he had 36 yellow buttons, how many buttons did he have in all?

Ans: (a) _____

(b) _____

40. David had 73.5 kg of durians more than Jonathan. After Jonathan sold $\frac{2}{3}$ of his durians, David had 95.2 kg more durians than Jonathan. How many kilograms of durians did Jonathan have at first?

Ans: _____

41. Eve and Fiona had \$342 altogether. After Eve spent $\frac{1}{4}$ of her money, and Fiona spent \$27, they had the same amount of money left. How much money did Eve have at first?

Ans: _____

42. David had 351 more stamps than Ethan. After he had given 54 stamps to Ethan, David has twice as many stamps as Ethan. How many stamps did David have at first?

Ans: _____

43. Christopher had \$154 more than Ryan at first. After Christopher gave \$262 to Ryan, Ryan had 3 times as much as Christopher. How much did they have altogether?

Ans: _____

Answer Key

Subject: Primary 4 Maths – Word Problems
Paper: CA1 2017 ACS

36. a) 2030 b) 258
37. \$3.70
38. a) 2 h 30 min b) 3 45 pm
39. a) $\frac{1}{2}$ b) 108
40. 32.55 kg
41. \$180
42. 540
43. \$740

Solutions from www.sgtestpaper.com

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36. Barker Cake Shop baked 4 352 tarts. The tarts were packed into 70 large boxes of 29 tarts each and the rest into small boxes of 9 tarts each.

- (a) How many tarts were packed into the large boxes?
 (b) How many small boxes of 9 tarts were there?

- (a) Number of tarts packed in large boxes = $70 \times 29 = 2030$
 (b) Number of tarts packed in small boxes = $4\,352 - 2030 = 2322$
 Number of boxes of 9 tarts = $2322 \div 9 = 258$

Ans: (a) 2030

(b) 258

37. At a stationery fair, Matthew bought 2 identical pencil cases and 3 identical marker pens for \$21.10. Kelvin bought 4 identical pencil cases and 5 identical marker pens for \$38.50. How much did 1 marker pen cost?

Let p = number of identical pencil cases, m = number of identical marker pens

$$2p + 3m = 21.10$$

$$4p + 6m = 42.20 \quad (1)$$

$$4p + 5m = 38.50 \quad (2)$$

$$m = 42.20 - 38.50 \quad (3) = (1) - (2)$$

$$m = \$3.70$$

Cost of 1 marker pen = \$3.70

Ans: \$3.70

38. Rachel took 1h 50 min to complete her homework. Joel took 40 min longer to complete the same homework.

- (a) How long did Joel take to complete his homework? Give your answer in hours and minutes.
 (b) If Rachel completed her homework at 17 35, what time did she start doing her homework? Leave your answer in 12 h format.

(a) Time taken for Joel to complete homework = $110 + 40 = 150$ min = 2 h 30 min

(b) Time Rachel started = $17\text{h } 35\text{ min} - 1\text{ h } 50\text{ min}$
 $= 15\text{ h } 45\text{ min} = 3\text{ }45\text{ pm}$

Ans: (a) 2 h 30 min

(b) 3 45 pm

39. Joseph had a collection of blue, green and yellow buttons. $\frac{1}{6}$ of the buttons were green, $\frac{2}{5}$ of the remaining buttons were yellow and the rest were blue.

- (a) What fraction of the buttons were blue? Give your answer in the simplest form.
 (b) If he had 36 yellow buttons, how many buttons did he have in all?

(a)

Let $u = \frac{1}{6}$ of total = number of green buttons

Remaining buttons = $5u$

$\frac{2}{5}$ of $5u = 2u$ = yellow buttons

Number of blue buttons = $6u - u - 2u = 3u = \frac{3}{6} = \frac{1}{2}$

(b)

$2u = 36$

$u = 18$

$6u = 108$

Ans: (a) $\frac{1}{2}$

(b) 108

40. David had 73.5 kg of durians more than Jonathan. After Jonathan sold $\frac{2}{3}$ of his durians, David had 95.2 kg more durians than Jonathan. How many kilograms of durians did Jonathan have at first?

Let $3u$ = mass of Jonathan's durians at first

$$2u = 95.2 - 73.5 = 21.7 \text{ kg}$$

$$u = 21.7 \div 2 = 10.85$$

$$3u = 10.85 \times 3 = 32.55 \text{ kg}$$

Ans: 32.55 kg

41. Eve and Fiona had \$342 altogether. After Eve spent $\frac{1}{4}$ of her money, and Fiona spent \$27, they had the same amount of money left. How much money did Eve have at first?

Let $u = \frac{1}{4}$ of Eve's money at first

$$\text{Amount of money at end} = (3u + 1u) + (3u + 27) = 342$$

$$7u = 315$$

$$u = 45$$

$$4u = 45 \times 4 = \$180$$

Ans: \$180

42. David had 351 more stamps than Ethan. After he had given 54 stamps to Ethan, David has twice as many stamps as Ethan. How many stamps did David have at first?

Let number of Ethan's stamps at the end = u

$$2u - u = u = 351 - 54 - 54 = 243$$

$$\text{Number of David's stamp at the end} = 243 \times 2 = 486$$

$$\text{Number of David's stamp at first} = 486 + 54 = 540$$

Ans: 540

43. Christopher had \$154 more than Ryan at first. After Christopher gave \$262 to Ryan, Ryan had 3 times as much as Christopher. How much did they have altogether?

Let u = amount Christopher had at the end

$$\text{Difference at end} = 262 + 262 - 154 = 370$$

$$3u - u = 2u = 370$$

$$u = 185$$

$$4u = 185 \times 4 = \$740$$

Ans: \$740
