Word Problem Worksheet

& Solutions

Raffles Paper

P4 Mathematics SA1 2017

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

36. Bag A contained 1040 g of rice.
Bag B contained twice as much as Bag A.
There was 700 g less rice in Bag C than Bag B.
What was the total mass of rice in bags A, B and C?

Ans: _____

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37. An arm chair costs 4 times as much as a stool.
Jenny paid $585 for an arm chair and 5 stools.
Find the cost of the arm chair.

Ans: _____

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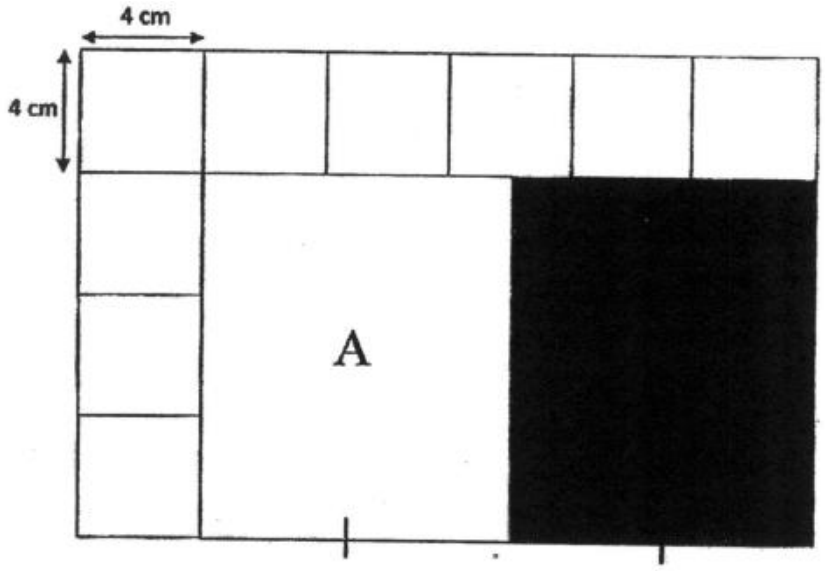
38. Khalid was supposed to divide a 3-digit number by a 1-digit number. He made a mistake by dividing the 3-digit number by 3 instead of 4. He obtained the incorrect answer of 208. What should be the correct answer?

Ans: _____

39. The figure below is made up of 9 identical 4-cm squares and 2 identical rectangles, A and B. Find the area of the shaded rectangle B.



Ans: _____

40. Matilda and Nelly had a total of 456 stickers.
Nelly and Yi Peng had a total of 224 stickers.
Matilda had 3 times as many stickers as Yi Peng.
How many stickers did Nelly have?

Ans: _____

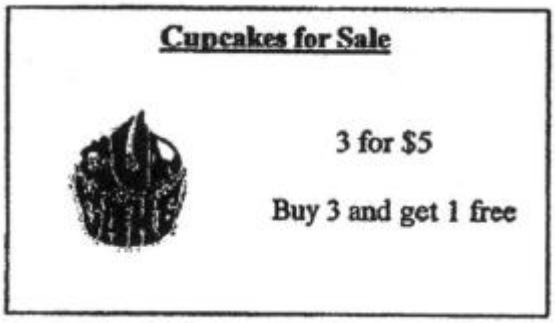
41. Siew Ping had $152 more than Tom at first.
After Siew Ping gave $301 to Tom, Tom had 4 times as much money as Siew Ping. How much did they have altogether?

Ans: _____

42. This year, Minghui's age is a multiple of 6. Two years later, her age will be a multiple of 5. Minghui is more than 20 years old but less than 80 years old. How old will she be in 7 years' time?

Ans: _____

43. A confectionery sells cupcakes at 3 for $5.
Customers receive a free cupcake for every 3 cupcakes they buy.
(a) How much did a customer pay if he received 20 cupcakes?
(b) How many cupcakes did a customer receive in total when he paid $30?

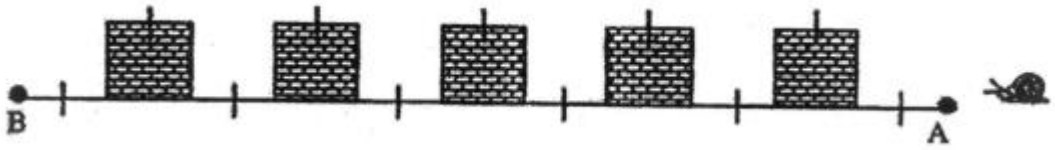


Ans: (a) _____

(b) _____

44. The snail in the diagram below needs to climb over 5 identical square bricks from point A to reach B. The distance between 2 square bricks is equal to the side of one square brick. The total area of the 5 identical square bricks is 8000 cm^2.

(a) Find the area of a square brick.
(b) Find the distance travelled by the snail when it crawled from point A to point B.



Ans: (a) _____

(b) _____

Answer Key

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

36. 4500 g
37. $260
38. 156
39. 120 cm^2
40. 166
41. $750
42. 55
43. a) $25 b) 24
44. a) 1600 cm^2 b) 840 cm

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

36. Bag A contained 1040 g of rice.
Bag B contained twice as much as Bag A.
There was 700 g less rice in Bag C than Bag B.
What was the total mass of rice in bags A, B and C?

Mass of Bag B = 1040 x 2 = 2080 g
Mass of Bag C = 2080 – 700 = 1380 g

Total mass of Bag A, B and C = 1040 + 2080 + 1380 = 4500 g

Ans: 4500 g

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37. An arm chair costs 4 times as much as a stool.
Jenny paid $585 for an arm chair and 5 stools.
Find the cost of the arm chair.

Let u = cost of a stool
Cost of arm chair = 4u

4u + 5u = 585
9u = 585
u = 585 ÷ 9 = $65

Cost of an arm chair = 4 x 65 = $260

Ans: $260

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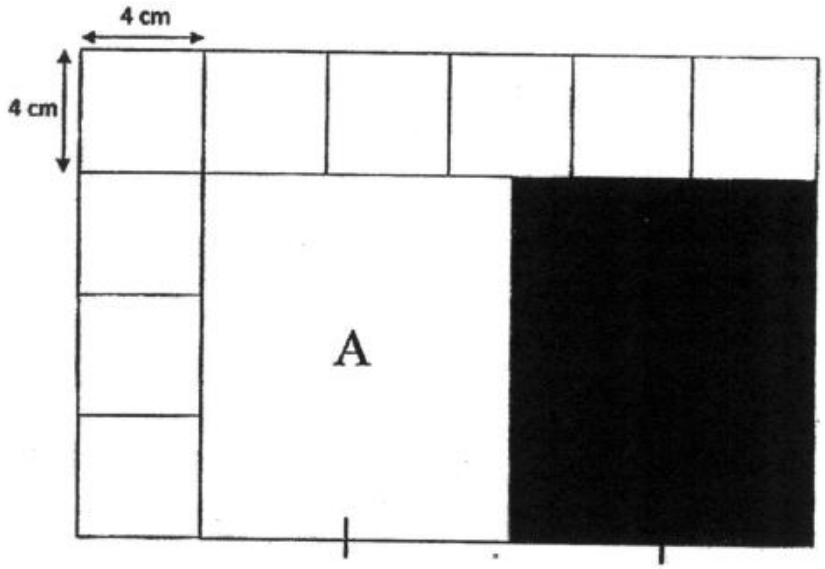
38. Khalid was supposed to divide a 3-digit number by a 1-digit number. He made a mistake by dividing the 3-digit number by 3 instead of 4. He obtained the incorrect answer of 208. What should be the correct answer?

Original 3-digit number = 208 x 3 = 624
Correct answer = 624 ÷ 4 = 156

Ans: 156

39. The figure below is made up of 9 identical 4-cm squares and 2 identical rectangles, A and B. Find the area of the shaded rectangle B.



Length of B = 4 x 3 = 12 cm
Breadth of B = 4 x 5 ÷ 2 = 10 cm
Area of shaded area B = 12 x 10 = 120 cm^2

Ans: 120 cm^2

40. Matilda and Nelly had a total of 456 stickers.
Nelly and Yi Peng had a total of 224 stickers.
Matilda had 3 times as many stickers as Yi Peng.
How many stickers did Nelly have?

Matilda and Nelly had 456 stickers (1)
Nelly and Yi Peng had 224 stickers (2)

Maltida and Yi Peng had 456 – 224 stickers (1) – (2)
Matilda and Yi Peng had 232 stickers

Let u = number of Yi Peng's stickers
Matilda's stickers = 5u
3u + u = 232
4u = 232
u = 232 ÷ 4 = 58

Nelly's stickers + 58 = 224
Nelly's stickers = 224 – 58 = 166

Ans: 166

41. Siew Ping had $152 more than Tom at first.
After Siew Ping gave $301 to Tom, Tom had 4 times as much money as Siew Ping. How much did they have altogether?

At first

Siew Ping	- $301		
Tom	+ $301	$152	

After

Siew Ping				
Tom				

Let u = Siew Ping's money in the end.
Difference at last = 301 + 301 – 152 = 450 = 4u – u = 3u
3u = 450
u = 450 ÷ 3 = 150

Amount they had altogether = u + 4u = 5u = 5 x 150 = $750

Ans: $750

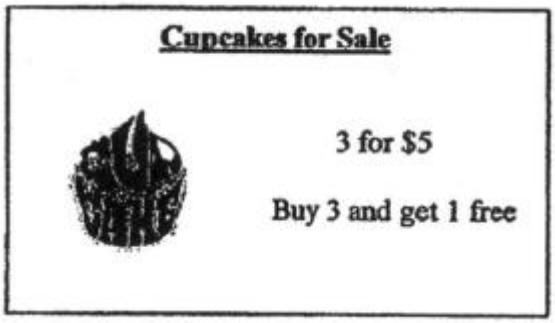
42. This year, Minghui's age is a multiple of 6. Two years later, her age will be a multiple of 5. Minghui is more than 20 years old but less than 80 years old. How old will she be in 7 years' time?

Multiple of 6 : 24, 30, 36, 42, 48, 54, 60, 66, 72, 78
Multiple of 6 plus 2: 26, 32, 38, 44, 50, 56, 62, 68, 74, 80
Multiple of 5: 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 70

Two years later her age is 50
In 7 years' time her age is 55

Ans: 55

43. A confectionery sells cupcakes at 3 for $5.
Customers receive a free cupcake for every 3 cupcakes they buy.
(a) How much did a customer pay if he received 20 cupcakes?
(b) How many cupcakes did a customer receive in total when he paid $30?



Cost of set of 4 cupcakes = $5
Cost of 20 cupcakes = 20 ÷ 4 x 5 = $25

Number of set of 4 for $30 = 30 ÷ 5 = 6
Number of cupcakes = 6 x 4 = 24

Ans: (a) $25

(b) 24

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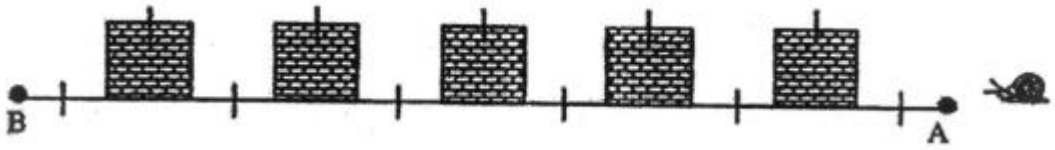
44. The snail in the diagram below needs to climb over 5 identical square bricks from point A to reach B. The distance between 2 square bricks is equal to the side of one square brick. The total area of the 5 identical square bricks is 8000 cm^2.

(a) Find the area of a square brick.
(b) Find the distance travelled by the snail when it crawled from point A to point B.



(a)

Area of 1 square brick = 8000 ÷ 5 = 1600 cm^2 = 40 x 40

Side of 1 square brick = 40 cm

(b)

Number of sides of square travelled = 4 x 5 + 1 = 21

Distance travelled = 21 x 40 = 840 cm

Ans: (a) 1600 cm^2

(b) 840 cm