

Word Problem Worksheet
& Solutions
For Nan Hua Paper
P5 Mathematics CA1 2018

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

6. Additional baskets made on 2nd, 3rd, 4th day = $5 + 10 + 15 = 30$

Number of baskets made on first day = $(206 - 30) \div 4 = 176 \div 4 = 44$

Ans: 44 baskets

7. Number of books on first and second shelves = $525 - 128 = 397$

Excess number of books on second shelf = 37

Number of books on first shelf = $(397 - 37) \div 2 = 180$

Ans: 180 books

8. a)
Number of groups = $64 \div 4 = 16$
- b)
Total number of packs of food given to scout = $2 \times 64 = 128$
- Total number of packs of food given to the groups = $16 \times 3 = 48$
- Total number of packs of food altogether = $128 + 48 = 176$

Ans: a) 16
b) 176

9. Let number of curry puffs Betty made = u
- Number of curry puffs Amy made = $u - 25$
- Number of curry puffs Carol made = $2u$
- Total curry puffs = $u - 25 + u + 2u = 115$
- $4u = 115 + 25 = 140$
- $u = 140 \div 4 = 35$
- Number of curry puffs Carol made = $2u = 2 \times 35 = 70$

Ans: 70

10. In 10 years' time the sum of Ali and his grandmother's age = $80 + 10 + 10 = 100$

In 10 years' time Ali's age = $100 \div 4$
= 25 years old

-- 3 times + 1 time = 4

Ali's age now = $25 - 10 = 15$

Ans: 15

11. Half the number of stickers after giving to sister = 78

Number of stickers before giving to sister = $78 \times 2 = 156$

Before he bought 125 more stickers, number of stickers he had = $156 - 125 = 31$

Before giving 50 stickers to Timothy, number of stickers he had = $31 + 50 = 81$

Number of stickers Joshua had at first = 81

Ans: 81

12. For every 5 trips, the fee charge was = $4 \times 80 + 75.50 = \$395.50$

Number of sets of 5 trips = $1582 \div 395.50 = 4$

Total number of trips made on time in March = $4 \times 4 = 16$

Ans: 16

13. a)
Number of boxes of ABC brand detergent required = $18 \div 3 = 6$

Price of 6 ABC brand detergent = $6 \times 6.80 = \$40.80$

b)
Number of boxes of XYZ brand detergent required = $18 \div 6 = 3$

Price of 6 XYZ brand detergent = $\$15 \times 2$ (buy 2 get 1 free)
= \$30

Savings = $40.80 - 30 = \$10.80$

Ans: (a) \$40.80
(b) \$10.80

14. Let u = amount Janice had left

Amount Sandy had left = $3u$

Difference between Sandy and Janice = $3u - u = 2u$

Difference of amount between Sandy and Janice = $1032 - 680 = 352$

$$2u = 352$$

$$u = 352 \div 2 = 176$$

Amount each spent = $680 - u = 680 - 176 = 504$

Ans: 504

15. a)

$$\text{Number of cows Joe sold} = \frac{3}{8} \times 128 = 48$$

b)

Let original number of chickens = u

$$\text{Chickens left} = \frac{5}{7}u = 155$$

$$u = \frac{7}{5} \times 155 = 217$$

Number of chickens sold = $217 - 155 = 62$

Ans: (a) 48
(b) 62

16.

a)

$$\text{Total contribution} = 10 \times 38 + 25 = \$405$$

b)

$$\text{Amount spent on food and decoration} = \frac{2}{5} \times 405 + \frac{1}{9} \times 405 = 162 + 45 = 207$$

$$\text{Amount spent on prizes} = 405 - 207 - 60 - 28 = \$110$$

Ans: (a) \$405

(b) \$110

17. a)

Total number of squares $\rightarrow 1, 4, 9, 16, 25$ (square of pattern number)

Pattern 5 has 25 squares

b)

Number of white squares $\rightarrow 1, 4, 8, 12, 16, 20 \dots\dots\dots$
 $= (n - 1) \times 4 = 4n - 4$

$$4n - 4 = 40$$
$$n = 44 \div 4 = 11$$

c)

Number of shaded squares $\rightarrow 0, 0, 1, 4, 9, 16, 25 \dots$
Number of shaded squares from 3rd pattern $= (n - 2) \times (n - 2)$
Number of shaded squares for Pattern 30 $= (30 - 2) \times (30 - 2) = 784$

Ans: (a) 25

(b) 11

(c) 784

For questions 6 to 17, show your working clearly 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. (45 marks)

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6. Uncle Seng made some baskets over 4 days. Each day he made 5 baskets more than the day before. He made a total of 206 baskets. How many baskets did he make on the first day?

Ans: _____ [3]

7. Keith put 525 books on 3 shelves. There were 128 books on the third shelf. There were 37 more books on the second shelf than on the first shelf. How many books were on the first shelf?

Ans: _____ [3]



8. 64 scouts were divided into groups of 4. Each scout was given 2 packs of food. In addition, each group was given another 3 packs of food.
- (a) How many groups were there?
- (b) How many packs of food were given out to the scouts altogether?

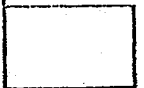
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Ans: a) _____ [1]

b) _____ [2]

9. Amy, Betty and Carol made 115 curry puffs. Betty made 25 more curry puffs than Amy. Carol made twice as many curry puffs as Betty.
- How many curry puffs did Carol make?

Ans: _____ [3]



10. The sum of Ali's age and his grandmother's age is 80 years now. In 10 years' time, his grandmother will be 3 times his age. How old is Ali now?

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Ans: _____ [3]

11. Joshua had a packet of stickers. He gave 50 stickers to Timothy. He then bought 125 more stickers. After that he gave half the number of stickers he had to his sister. He was finally left with 78 stickers. How many stickers had Joshua at first?

Ans: _____ [4]

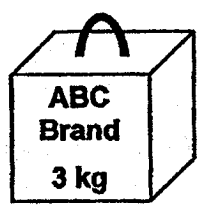


12. A delivery man charges \$80 for every trip that is on time. When he is late, he can only charge \$75.50 per trip. In March, the delivery man earned \$1 582. For every 5 trips he made, 1 trip was late. How many trips were on time in March?

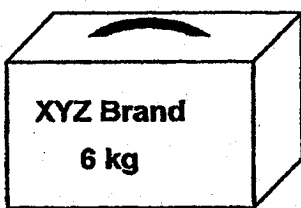
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Ans: _____ [4]

13. Two different brands of detergents are on promotion at a supermarket.



\$6.80 per box



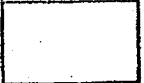
\$15 per box
Buy 2 get 1 free

Uncle Bobby needs to get exactly 18 kg of detergent,

- (a) how much will he have to pay if he buys ABC Brand detergent?
- (b) how much will he save if he buys XYZ Brand instead of ABC Brand?

Ans: a) _____ [2]

b) _____ [2]



14. Sandy had \$1 032 and Janice had \$680. After each of them had spent an equal amount of money, Sandy had 3 times as much money left as Janice. How much did each of them spend?

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Ans: _____ [4]

15. Farmer Joe had 128 cows and some chickens. He sold $\frac{3}{8}$ of his cows and $\frac{2}{7}$ of his chickens. He had 155 chickens left.

- (a) How many cows did he sell?
(b) How many chickens did he sell?

Ans: a) _____ [2]

b) _____ [2]



16. There were 38 pupils in a class. Each of them contributed \$10 towards a class party. The form teacher contributed \$25.

$\frac{2}{5}$ of the total amount contributed was spent on food.

$\frac{1}{9}$ of the total amount contributed was spent on decoration.

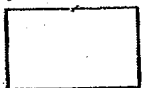
After spending \$60 on drinks and some money on prizes, there was \$28 left.

- (a) What was the total amount contributed?
- (b) How much was spent on the prizes?

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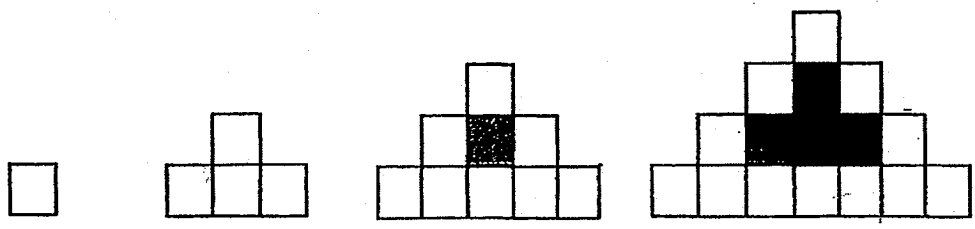
Ans: a) _____ [2]

b) _____ [3]



17. Some squares are used to form the pattern below.

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Pattern 1

Pattern 2

Pattern 3

Pattern 4

- (a) What is the total number of squares in Pattern 5?
- (b) Which pattern is made up of 40 white squares?
- (c) How many shaded squares are there in Pattern 30?

Ans: a) _____ [1]

b) _____ [2]

c) _____ [2]

-- End of Paper 2 --

