

Year 4 Term 4 Homework

Student Name: _____	Grade: _____
Date: _____	Score: _____

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This edition was printed on June 1, 2017 with **answers**.

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5 Year 4 Term 4 Week 5 Homework

5.1 Topic 1 — Percentages

Exercise 5.1.1

1. How much is a discount of 22% on \$280?

2. What percentage is 50 cents of \$8?

3. How much is a commission of 15% on \$1200?

4. Increase 80 by 20%.

5. Decrease 480 by 40%.

6. Price of a MP3 player is \$180. Discount 20%. What is the discount?

7. 20% of a number is 15. What is the number?

5.2 Topic 2 — Ratio and rate

Exercise 5.2.1

1. The ratio of cats to dogs is 4:7. If there are 35 dogs, how many cats are there?

2. On a bus trip the ratio of males to female passengers is 4:5. If there 30 females on the bus, how many males are there?

3. The ratio of the ages of three brothers is 10:7:5. If the youngest is 15 years old, what is their total ages?

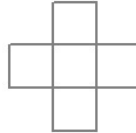
4. It is known that an alloy is made up of copper, tin and zinc in the ratio of 14:7:10. In a certain batch, 91 kg of tin is used. How much copper and zinc will be needed to make the alloy?

5. A tap is leaking at the rate of 25 mL every 30 seconds. Find the amount of water wasted each day.

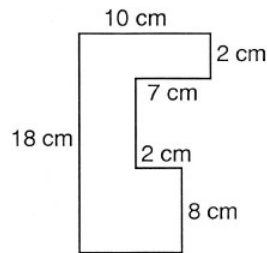
5.3 Topic 3 — Measurements

Exercise 5.3.1

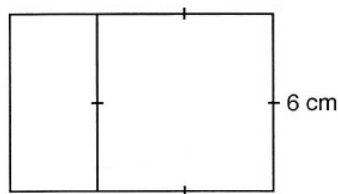
1. The figure shown is made up of five congruent squares. What is the area of the figure if the perimeter of the figure is 72 cm?



2. Find the area of the following figure.



3. The area of the figure is 60 cm^2 . What is its perimeter?



5.4 Problem Solving

Exercise 5.4.1

1. They put 3800 kg of meat into each of two vans. Then they put an extra 1600 kg of meat into one van and took out 500 kg of meat from the other. How much more meat did one van carry than the other van?

2. Emma has \$3756 in her bank account, which is 6 times the amount of Jane has. How much more money does Emma have than Jane?

3. The average of all five of Annie's marks is exactly 84. The average of her first three marks is exactly 80. What is the average of her last two marks?

4. John chooses a number. He multiplies it by 4, then adds 8, then divided by 4, and finally subtracts 8. His end result is 4. What number did he choose?

5. Alice had \$72. She spent $\frac{2}{3}$ of it on a pair of pants and \$10 on a skirt. How much money had she left?

5.5 Diagnostic Test

1. What is the value of the following?

[5]

$$9 + 91 + 18 + 82 + 27 + 73 + 36 + 64 + 45 + 55$$

1. _____

2. Peter has half as many marbles as James has. James has half as many as Charles has. Charles has 12 times as many as Sam. If Sam has 4 marbles, how many marbles do they have altogether?

[5]

2. _____

3. Each side of a square is 6 cm long. A rectangle has a width of 3 cm, and the same area as the square. Find the perimeter of the rectangle in cm.

[5]

3. _____

4. What is the value of N if $\frac{1}{N} + \frac{1}{6} = \frac{1}{5}$?

[5]

4. _____

5. Cathy had saved \$16247. She spent 1 seventh of it on a holiday. How much money does she have left? [5]

5. _____

6. A motorcyclist covered 11064 m in 8 minutes. A cyclist covered 2290 m in the same time. How much further did the motorcyclist travel than the cyclist? [5]

6. _____

7. If 3 hens lay 12 eggs in 2 days, how many eggs are laid by 5 hens in 3 days? [5]

7. _____

8. 5 coaches carry 125 people. How many people can 13 coaches carry? [5]

8. _____

9. In an orchard, 8706 kg of apples and 6954 kg of pears were picked. The apples were put into nets [5] which could hold 8 kg each. The pear were packed into boxes which could hold 12 kg each. They filled 876 nets of apples and 438 boxes of pears. Which fruit did they have more of left over? How much more?

9. _____

10. 3 times a number is greater than half of the number by 50. What is the number? [5]

10. _____

11. Suppose it is now the month of November. What month will it be 100 calender months from now? [5]

11. _____

12. The sum of 7 consecutive integers is 105. What is the sum of the smallest and largest of these [5] numbers?

12. _____

13. I can walk at a speed of 6 km/h. How far will I walk in $3\frac{2}{3}$ hours? [5]

13. _____

14. George left his home at 11:20 a.m. and travelled 175 km to his grandma's house arriving there at 1:40 pm. What was his average speed? [5]

14. _____

15. The perimeter of a regular pentagon is 45 cm, what is the ratio of the perimeter to the side of the regular pentagon? [5]

15. _____

16. A length of timber is cut into two pieces in the ratio of 3:7. If the longer piece is 42 cm, how long was the original length? [5]

16. _____

17. During a television movie lasting $2\frac{1}{2}$ hours, the ratio of advertisements to actual movie was 4:11. [5]
How much time is spent watching advertisements?

17. _____

18. What fraction of 2 hours is 64 minutes? Express your answer in simplest form. [5]

18. _____

19. A container was filled with 4 L of water. Another 8 L of water was poured into it to fill it up. Jane [5]
scooped out eight 250-mL cup of water. How much water was left in the container?

19. _____

20. John spent $\frac{1}{2}$ of his money on books and $\frac{1}{3}$ of the remainder on food. He had \$24 left. How much [5]
did he spend on books?

20. _____