

## Year 4 Term 3 Homework

|                            |                     |
|----------------------------|---------------------|
| <b>Student Name:</b> _____ | <b>Grade:</b> _____ |
| <b>Date:</b> _____         | <b>Score:</b> _____ |

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This edition was printed on June 8, 2017 with **answers**.

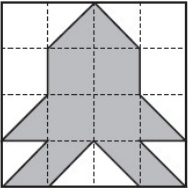
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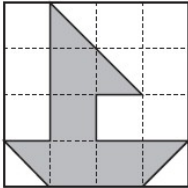
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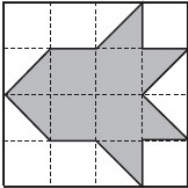
## 6 Year 4 Term 3 Week 6 Homework

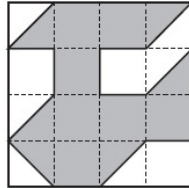
### 6.1 Topic 1 — Shading Shapes

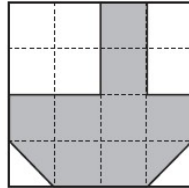
1. What fraction of the following shapes have been shaded? Is it more or less than 1 half, or equal to 1 half? Write the fraction and the missing signs (< , = & >).

a)    $\frac{1}{2}$

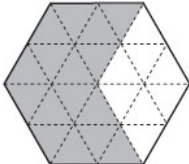
b)    $\frac{1}{2}$

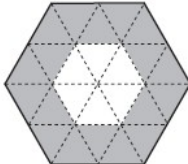
c)    $\frac{1}{2}$

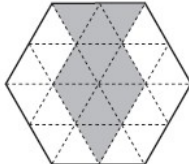
d)    $\frac{1}{2}$

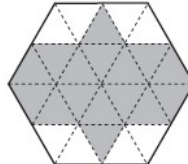
e)    $\frac{1}{2}$

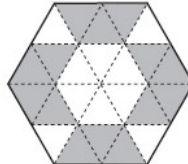
2. Each hexagon is 1 unit. What part of the unit is shaded? Is it more or less than 2 thirds, or equal to 2 thirds? Write the fraction and the missing signs (< , = & >).

a)    $\frac{2}{3}$


b)    $\frac{2}{3}$


c)    $\frac{2}{3}$

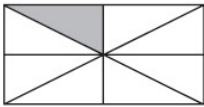
d)    $\frac{2}{3}$

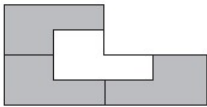
e)    $\frac{2}{3}$

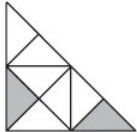
3. What part of the figures have been shaded?

a) 

b) 

c) 

d) 

e) 

## 6.2 Topic 2 — Fractions

1. Which would give you more chocolate? \_\_\_\_\_

$\frac{3}{8}$  of one bar

or

$\frac{1}{8}$  of 3 bars



2. Evaluate these parts of 72 cm line segment:

(a)  $\frac{2}{6} =$  \_\_\_\_\_

(b)  $\frac{5}{6} =$  \_\_\_\_\_

(c)  $\frac{8}{6} =$  \_\_\_\_\_

(d)  $\frac{9}{8} =$  \_\_\_\_\_

(e)  $\frac{8}{9} =$  \_\_\_\_\_

(f)  $\frac{3}{8} =$  \_\_\_\_\_

3. Write an equation for each part. Give your answer as a fraction or as a whole number.

(a) One seventh of three units: \_\_\_\_\_

(b) The ratio of 3 to 10: \_\_\_\_\_

(c)  $\frac{3}{5}$  of 100: \_\_\_\_\_

(d) The ratio of 15 to 8: \_\_\_\_\_

(e) 1 fifth of 1 third of 1 unit: \_\_\_\_\_

(f) 32 divided by 100: \_\_\_\_\_

4. Change the quantities and fill in the missing numbers:

(a)  $\frac{1}{5}$  kg = \_\_\_\_\_ g

(b)  $\frac{3}{5}$  kg = \_\_\_\_\_ g

(c)  $\frac{1}{4}$  kg = \_\_\_\_\_ g

(d)  $\frac{1}{8}$  kg = \_\_\_\_\_ g

### 6.3 Topic 3 — Decimals

1. Write the decimal numbers in the place-value table, then write the numbers as the sum of a whole number and a fraction.

| Th | H | T | U | t | h | th |
|----|---|---|---|---|---|----|
|    |   |   |   |   |   |    |
|    |   |   |   |   |   |    |
|    |   |   |   |   |   |    |
|    |   |   |   |   |   |    |

$$16 + \frac{7}{100} = 16\frac{7}{100}$$


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a) 16.07

b) 518.26

c) 1001.108

d) 0.058

2. Write these numbers as decimals.

- (a)  $\frac{27}{100} =$  \_\_\_\_\_
- (b)  $\frac{9}{100} =$  \_\_\_\_\_
- (c)  $\frac{6}{20} =$  \_\_\_\_\_
- (d)  $2\frac{3}{4} =$  \_\_\_\_\_
- (e)  $3 + \frac{1}{5} =$  \_\_\_\_\_
- (f)  $\frac{524}{100} =$  \_\_\_\_\_
- (g)  $125 + \frac{3}{10} =$  \_\_\_\_\_
- (h)  $235 + 5\frac{2}{5} =$  \_\_\_\_\_

3. Write these decimals as fractions:

- (a) 5.02 = \_\_\_\_\_
- (b) 0.09 = \_\_\_\_\_
- (c) 102.3 = \_\_\_\_\_
- (d) 25.4 = \_\_\_\_\_
- (e) 3.15 = \_\_\_\_\_
- (f) 0.15 = \_\_\_\_\_

**6.4 Topic 4 — Number Patterns**

① 53, 59, 55, 61, 57, 63, 59, \_\_\_ , \_\_\_

② 67, 59, 64, 55, 60, 50, 55, \_\_\_ , \_\_\_

③ 98, 95, 90, 83, 74, 63, 50, \_\_\_ , \_\_\_

④ 84, 81, 80, 76, 75, 70, 69, \_\_\_ , \_\_\_

⑤ 18, 27, 35, 42, 48, 53, 57, \_\_\_ , \_\_\_

⑥ 2, 4, 3, 6, 5, 10, 9, \_\_\_ , \_\_\_

⑦ 20, 28, 20, 29, 21, 31, 23, \_\_\_ , \_\_\_

⑧ 40, 42, 44, 47, 49, 53, 55, \_\_\_ , \_\_\_

⑨ 15, 19, 24, 30, 37, 45, 54, \_\_\_ , \_\_\_

⑩ 50, 45, 50, 44, 49, 42, 47, \_\_\_ , \_\_\_

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Score:

**6.5 Quiz 6****6.5.1 Part A**

1. One third of a fence post was under the ground. The height of the post above the ground was 180 cm. The total length of the post would be:  
(A) 270 cm                      (B) 120 cm                      (C) 160 cm                      (D) None of these

2. What number belongs in the square so as to make the number sentence true?

$$\boxed{?} \times 4 - 3 = 21$$

- (A) 3                      (B) 4                      (C) 5                      (D) 6
3. What is the next number of this sequence?      25, 36, 49, 64, 81, \_\_\_\_\_  
(A) 100                      (B) 96                      (C) 98                      (D) 87
4. If the 4th December is a Tuesday, what day will the last day of December be?  
(A) Monday                      (B) Tuesday                      (C) Friday                      (D) Saturday
5. If three ice-creams can be bought for a total of \$1.35, what would I pay for five ice-creams?  
(A) \$2.35                      (B) \$2.25                      (C) \$2.45                      (D) \$5.00

6. Mike spent half his money. If he have \$5.80 to begin with, how much did he spend?  
(A)  $\$5.80 \times 2$                       (B)  $\$5.80 \div \frac{1}{2}$                       (C)  $\$5.80 + 2$                       (D)  $\$5.80 \times \frac{1}{2}$

7. Mr Brow travelled at a steady pace covering 458 km in 6 hours. Which mathematical calculation will tel us how many kilometres they travelled in the first hour?  
(A)  $458 + 6$                       (B)  $458 \times 6$                       (C)  $458 \div 6$                       (D)  $458 \div \frac{1}{6}$

8. Together a pair of glasses and a case cost \$30. The glasses cost \$20 more than the case. What was the cost of the case?  
(A) \$10.00                      (B) \$8.00                      (C) \$5.00                      (D) \$2.50

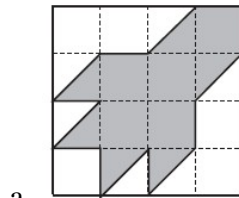
9. Two numbers are multiplied together and the result is 46. These same numbers, when added, give an answer of 25. If these numbers were subtracted then the result would be:  
(A) 23                      (B) 21                      (C) 15                      (D) 19

10.  $4263 \div 3 \times 5 =$  \_\_\_\_\_  
(A) 7053                      (B) 3057                      (C) 5438                      (D) 7105

**6.5.2 Part B**

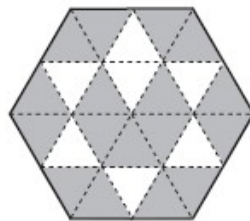
1. What part of the figures have been shaded?

(a) \_\_\_\_\_



a.

(b) \_\_\_\_\_



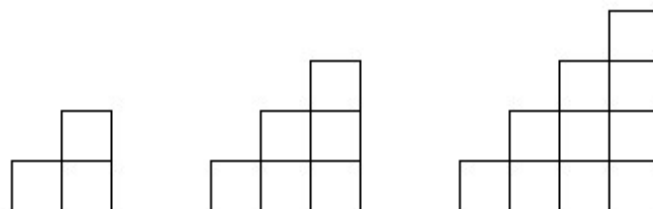
b.

(c) \_\_\_\_\_



c.

2. Here is a pattern made with squares. If first shape has 3 squares, the second shape has 6 squares and the third shape has 10 squares. How many squares will be in the sixth shape?



\_\_\_\_\_

\_\_\_\_\_

**6.5.3 Part C**

1. It costs \$2.50 to hire a taxi plus \$2.20 each kilometre. What was the total taxi fare for a 20 kilometre ride?

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2. Find the cost of a box of 126 apples, if apples are \$3.60 for a dozen.

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3. If 2 kg of cherries cost \$8.40, How much would 5 kg of cherries cost?

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4. Raymond wants to buy a X-BOX Game console which is priced at \$360. If he saves \$5 per week for 25 weeks, how much more will he need to save?

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5. School starts at 9:05 and finishes at 3:15. How many hours and minutes do students spend at school each week?

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6. Jane was given \$120 to purchase 8 books costing \$12.95 each. How much change would she receive?

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**6.5.4 Part D**

- Robert paid \$4200 deposit on his new car. He is then required to pay \$200 each month for three years. What will his car have cost him?

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- At the canteen, five ladies each packed 25 sandwiches. If each sandwich is made using two slices of bread, how many slices were used altogether?

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- Four friends stand in a queue. There are 18 people in front of the group and 15 people standing behind the group. How many people are in the queue?

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- What number could replace the question mark in this grid?

|    |    |   |   |   |    |
|----|----|---|---|---|----|
| 10 | 7  | 5 | 2 | 3 | 8  |
| 18 | 12 | 8 | 2 | ? | 14 |

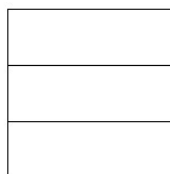
Answer \_\_\_\_\_

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- A square with a perimeter of 36 cm is divided into three equal rectangles as shown. What is the perimeter of each rectangle?




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