

Year 4 Term 3 Homework

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

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8 Year 4 Term 3 Week 8 Homework

8.1 Topic 1 — Fractions (Revision)

Exercise 8.1.1 Change the quantities. Fill in the missing numbers.

a) $\frac{1}{2}$ kg = g $\frac{3}{2}$ kg = g $\frac{1}{4}$ kg = g $\frac{1}{10}$ kg = g
 $\frac{1}{5}$ kg = g $\frac{3}{5}$ kg = g $\frac{1}{100}$ kg = g $\frac{75}{100}$ kg = g

b) $\frac{1}{2}$ km = m $\frac{3}{2}$ km = m $\frac{3}{5}$ km = m $\frac{1}{10}$ km = m
 $\frac{4}{10}$ km = m $\frac{3}{100}$ km = m $\frac{60}{100}$ km = m $\frac{523}{1000}$ km = m

Exercise 8.1.2 Write an operation for each part and then give your answer as a fraction or a whole number:

1. One seventh of three units: _____

2. $\frac{3}{4}$ of 200: _____

3. The ratio of 3 to 12: _____

4. The ratio of 15 to 8: _____

5. One fifth of one third of 2 units: _____

6. One third of one fifth of 2 units: _____

7. 34 divided by 200: _____

8. Two thirds of two fifths of 6 units: _____

8.2 Topic 2 — Decimals (Revision)**Exercise 8.2.1 Write these numbers as decimals:**

1. $\frac{25}{100} =$ _____

2. $\frac{35}{100} =$ _____

3. $\frac{12}{100} =$ _____

4. $\frac{7}{100} =$ _____

5. $\frac{4}{50} =$ _____

6. $\frac{9}{50} =$ _____

7. $\frac{4}{25} =$ _____

8. $\frac{7}{25} =$ _____

Exercise 8.2.2 Write these decimals as fractions:

1. $0.20 =$ _____

2. $0.52 =$ _____

3. $3.1 =$ _____

4. $5.5 =$ _____

5. $10.2 =$ _____

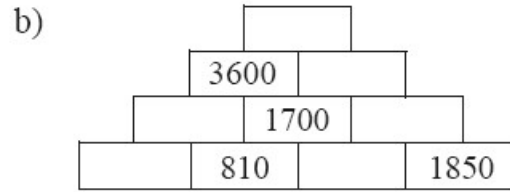
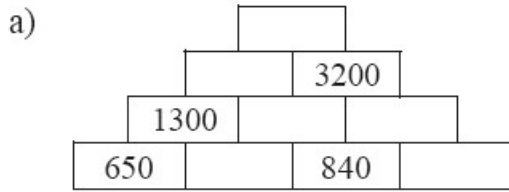
6. $4.8 =$ _____

7. $10.25 =$ _____

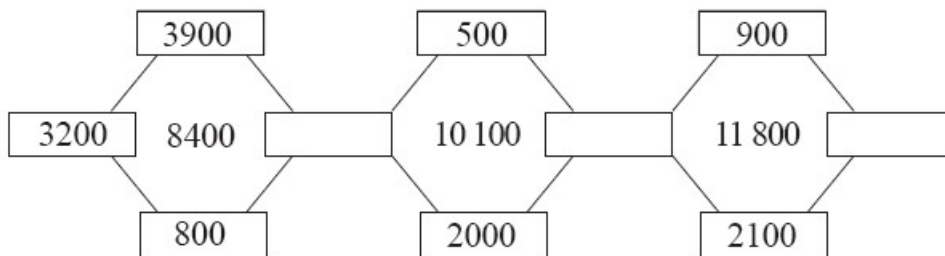
8. $30.3 =$ _____

8.3 Topic 3 — Number Patterns

Exercise 8.3.1 The sum of any two adjacent numbers is the number directly above them. Fill in the missing numbers.



Exercise 8.3.2 The number in the middle is the sum of the 4 numbers around it. Fill in the missing numbers.



Exercise 8.3.3 What is the next most likely number in the following patterns:

1. 2, 10, 24, 44, _____
2. 7, 14, 9, 18, 13, _____
3. 13, 18, 15, 20, 17, _____
4. 2, 6, 14, 30, 62, _____
5. 1, 8, 27, 64, _____
6. $\frac{1}{3}$, $\frac{2}{4}$, $\frac{3}{5}$, $\frac{4}{6}$, _____
7. 7, 28, 10, 40, 4, _____
8. 13, 17, 19, 23, 29, _____

8.4 Topic 4 — Problem Solving**Exercise 8.4.1**

1. Linda visited 4 different butchers and found the following price for one kilogram of T-bone steak: \$9.12, \$9.67, \$9.39 and \$9.22. What was the average price of one kg of steak?

2. Find the area of a rectangle with sides 45 cm by $\frac{1}{4}$ m.

3. There are between 30 and 40 sheep in a field. If I count them by twos there is 1 left over, and if I count them by threes there are 2 left over. How many sheep are there in the field?

4. The weight of 3 baskets of eggs are 1 kg 100 g, 1 kg 25 g and 2 kg 255 g. What is their average weight?

5. The perimeter of a field is 600 m. Its length is twice that of the breadth. Find its length.

8.5 Quiz 8**8.5.1 Part A**

- Express 3.01 as a fraction:
A. $3\frac{1}{10}$ B. $\frac{31}{100}$ C. $3\frac{1}{100}$ D. $\frac{1}{3}$
- Express 0.08 as a fraction:
A. $\frac{8}{10}$ B. $\frac{4}{100}$ C. $\frac{1}{8}$ D. $\frac{2}{25}$
- Express $3\frac{35}{100}$ as a decimal:
A. 3.35 B. 0.35 C. 0.335 D. 3.05
- Express $\frac{6}{20}$ as a decimal:
A. 0.24 B. 0.3 C. 0.6 D. 0.06
- Which number has the least value?
A. 3.3 B. 3.03 C. 3.33 D. 3.303
- A cup holds 200mL, If I need 50 cups of hot water, how many litres of hot water do I need to boil?
A. 10 L B. 20 L C. 50 L D. 100L
- Which fraction amongst $\frac{31}{7}$, $5\frac{3}{7}$, $\frac{38}{7}$, and $4\frac{5}{7}$ is closest to 5?
A. $\frac{31}{7}$ B. $5\frac{3}{7}$ C. $\frac{38}{7}$ D. $4\frac{5}{7}$
- Express 35 seconds as fraction of a minute.
A. $\frac{7}{12}$ B. $\frac{7}{20}$ C. $\frac{20}{7}$ D. $\frac{7}{60}$
- Find the product of 8.75 and 5.
A. 43.55 B. 40.25 C. 43.75 D. 43.25
- What is the number which is halfway between 12.36 and 8.32?
A. 4.16 B. 10.34 C. 10.84 D. 20.68
- What is the square of 13?
A. 121 B. 144 C. 169 D. 196

8.5.2 Part B

1. Express the quantity as a decimal: 9 km 82 m = _____ km.
2. Express the quantity as a decimal: 11 kg 108 g = _____ kg.
3. Express the quantity as a decimal: 4 hours 15 min = _____ hours.
4. Express the quantity as a decimal: 6 m 630 mm = _____ m.
5. Express $\frac{3}{8}$ day in hours. _____
6. Express 3.45 as a fraction in its simplest form. _____
7. Decrease the product of 12 and 3 by the square of 2. _____
8. 2.15 hours is equivalent to _____ minutes.
9. What is the second largest number possible using the digit 1, 3, 5, 7 once only. _____
10. Find the average of 20, 19, 21, 24 and 12.

11. What is the square root of 144? _____
12. What is the difference between 19.01 and 4.94? _____
13. How many whole hundreds are there in 347592? _____
14. Find the remainder when 6738 is divided by 25. _____

8.5.3 Part C

1. From the numbers 10 to 100, how many even numbers appear inclusively?

2. Find the value of $1 \div 2 \times 3 \div 4 \times 5 \div 6$.

3. Mike runs 96 m in 12 seconds. How far would he run in 2 minutes?

4. A baker uses 13 eggs to bake a cake. Find the number of eggs he needs to use to bake 31 cakes.

5. A machine can manufacture 135 packets of drink in 15 minutes. How many packets of drink can it manufacture in 1 hour?

6. The product of two numbers is 732. If one of them is 61, find the sum of the two numbers.

7. If it costs \$46 per square metre to carpet a room, how much would it cost to carpet the floor of a room that measures 6 m by 4.5m?

8.5.4 Part D

1. How long will it take to run 200 m if you can run at $6\frac{2}{3}$ m in 1 second?

2. If $\frac{1}{4}$ of a pole is below the ground and 21 m is above the ground, what is the length of the pole?

3. The average of three numbers is 8. A fourth number is added and the new average is 9. What is the fourth number?

4. The average height of Adam, Bob and Carol is 137 cm, and the average height of Adam and Bob is 136 cm. What is the height of Carol?

5. A packet of sugar weighs $1\frac{1}{2}$ kg and packet of salt weighs $2\frac{1}{4}$ kg. What is the total weigh of 3 packets of sugar and 4 packets of salt?
