

Year 4 Term 4 Homework

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

Table of contents

1 Year 4 Term 4 Week 1 Homework	1
1.1 Topic 1 — Percentages	1
1.2 Topic 2 — Ratio	2
1.3 Topic 3 — Rate	3
1.4 Topic 4 — Divisibility	4
1.5 Problem Solving	5
1.6 Quiz 1	6
1.6.1 Part A	6
1.6.2 Part B	7
1.6.3 Part C	8
1.6.4 Part D	9

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1 Year 4 Term 4 Week 1 Homework

1.1 Topic 1 — Percentages

Exercise 1.1.1 Change the following percentages to decimals:

1. $12\% =$ _____

2. $84\% =$ _____

3. $17\% =$ _____

Exercise 1.1.2 Change the following to fractions to its simplest form:

1. $19\% =$ _____

2. $56\% =$ _____

3. $14\% =$ _____

Exercise 1.1.3 Express the each of the following as a percentage:

1. $\frac{17}{1000} =$ _____

2. $\frac{65}{500} =$ _____

3. $0.06 =$ _____

Exercise 1.1.4 Further applications

1. Find 75% of \$80.80. _____

2. Find 15% of \$900.00 _____

3. The price of a TV set is \$900. It is being sold at a 10% discount. What is the price of the TV?

4. 72 marks out of 90, what percentage is that? _____

5. 35 marks out of 50 expressed as a percentage is: _____

6. At a school of 500 students, 210 are boys. What percentage of students enrolled are girls?

1.2 Topic 2 — Ratio**Exercise 1.2.1**

1. A baker needs 7 kg of flour to make 175 rolls. How many rolls can be made with 3 kg of flour?

2. If 4 equal rolls of material contain 256 m, what length of material would be in 150 such rolls?

3. If 6 pencils cost \$2.40, how many pencils can be bought for \$3.60?

4. 3 metres of a certain type of material cost \$6.20. What would be the price of 12 metres of the same material?

5. Eight identical bottles of wine contain 6 litres. How many bottles of wine should I buy if I need 15 litres for a party?

6. A girl types 4 words every 10 seconds. How many words can she type in $5\frac{1}{3}$ minutes?

1.3 Topic 3 — Rate

Exercise 1.3.1

1. Two trains leave the station at the same time but in opposite directions. Train A travels at 80 km/h and train B travels at 60 km/h. How far apart are they after one and a half hours?

2. Two trains leave the station at the same time and in the same direction from different railways. Train A travels at 80 km/h and train B travels at 90 km/h. How far apart are they after two and a half hours?

3. At an average speed of 40 km/h a car takes $1\frac{1}{2}$ hours to travel a certain distance. How long will it take if the car travelling at 60 km/h?

4. Averaging 60 km/h a car take takes $1\frac{1}{2}$ hours to travel a certain distance. How long will it take if the car is travelling at 40 km/h?

5. Average 40 km per hour it takes 5 hours to drive to grandma's. How long will it take if we average 60 km per hour?

1.4 Topic 4 — Divisibility

Exercise 1.4.1

1. What is the largest number under 500 that is divisible by both 9 and 12?

2. What is the smallest number that is greater than 500 and divisible by 12?

3. What is the largest number that is smaller than 500 and is divisible by both 6 and 8?

4. What is the smallest number that is divisible by 6, 8 and 12?

5. What is the next number after 500 that is divisible by 6, 8 and 12?

6. What is the smallest number that is greater than 100 and is divisible by 6, 12 and 18?

1.5 Problem Solving

Exercise 1.5.1

1. If I divided up my pocket money so that I had the same amount for 6 days, I would have \$1.42 each day and 3 cents would be left over. How much would remain if I divided up my pocket money equally over 7 days?

2. David bought a length of material for \$48.60. If it costs \$1.80 per metre, how many metres did he buy?

3. Cinema tickets cost \$9.60 for adults and \$6.30 for children.

(a) How much would cost a family of 2 adults and 3 children to go to cinema?

(b) Michael is 11 years old and has been given a cinema voucher worth \$50 for his birthday. How many friends could he take with him to the cinema using his voucher?

4. Averaging 60 km per hour it takes 5 hours and twenty minutes to drive to grandma's house. How long will it take if we average 40 km per hour?

1.6 Quiz 1**1.6.1 Part A**

1. Luke had 29 sweets. He ate 8 of them and shared the rest equally among 3 of his friends. How many sweets did he give each friend?
A. 3 B. 5 C. 7 D. 9
2. How many quarters are there in $3\frac{1}{2}$?
A. $3\frac{1}{2}$ B. 5 C. 7 D. 14
3. How many halves are there in $7\frac{1}{2}$?
A. $4\frac{1}{4}$ B. 14 C. 15 D. $3\frac{3}{4}$
4. What fraction is 150 mL of 1 Litre?
A. $\frac{2}{30}$ B. $\frac{3}{20}$ C. $\frac{5}{12}$ D. $\frac{3}{8}$
5. What fraction is 80 cents of \$4.00?
A. $\frac{1}{3}$ B. $\frac{1}{4}$ C. $\frac{1}{5}$ D. $\frac{1}{6}$
6. $12 + 2 \times 5 \times 0$ is equal to?
A. 12 B. 27 C. 70 D. 0
7. The average weight of 3 men is 60 kg. The average weight of 2 women is 58 kg. The average weight of 5 people is?
A. 59.2 kg B. 58.6 kg C. 59.5 kg D. 58.9 kg
8. The next number in the sequence 1, 5, 13, 29, . . . is:
A. 58 B. 60 C. 61 D. 65
9. What is the cost of tiling a floor 7 metres by 5 metres at \$22 per square metre?
A. \$720 B. \$750 C. \$770 D. \$780
10. How many 35 cents books may be bought for \$5.60?
A. 12 B. 14 C. 16 D. 18
11. Which of the following numbers has the largest value?
A. 1.24 B. 1.18 C. $1\frac{1}{4}$ D. 1.22
12. What is the smallest number of coins which will total exactly \$25.35?
A. 15 B. 16 C. 18 D. 28

1.6.2 Part B

1. What is four times as much as three times 675? _____

2. What is nine times as much as twice 591? _____

3. What is half of 1 fifth of 3720? _____

4. Yesterday, the temperature at mid-day was 16°C but at dawn it is -3.5°C . By how many degrees has the temperature cooled down?

5. The farmer harvested 9750 kg of wheat. He packed the wheat into sacks which held 75 kg each. How many sacks did he need?

6. If 30 cans of lemonade are packed in 5 boxes, how many boxes should we buy if we need 88 cans of lemonade for a party?

7. Decrease the quotient of 18 and 3 by 4.

8. What is the difference between 8 and square of 6?

9. Increase the product of 15 and 12 by 7.

1.6.3 Part C

1. How many days are in the first 5 months of a leap year?

2. The product of 16 and 9 is decreased by the quotient of 18 and 3.

3. The average of 3 numbers is 7. A fourth number is added on the total and the new average is 9. What is the fourth number?

4. My cricket batting average is 26 runs for 5 matches. If I score 128 runs in my 6th match, what is my new batting average?

5. If it takes John $\frac{3}{4}$ of an hour to write one page of an essay, how long will it take him to write 7 pages?

6. A pole 5 metres high casts a shadow 4 metres long. How high is a tree which casts a shadow 10 metres long?

7. The circumference of a car tyre is 2 metres. If the tyre is revolving 6 times every second, how far will the travel in 1 hour?

1.6.4 Part D

1. A train travelled 126 km in the first hour and a half of a journey, then it stopped for 15 minutes. It took 65 minutes to cover the remaining 112 km.

(a) How much time did the train take to cover the whole journey?

(b) What was the average speed for the whole journey?

2. A tank was half full of water. 600 litres of water is added, making it $\frac{3}{4}$ full. What is the capacity of the water tank?

3. The perimeter of a rectangle is 94 cm and the length is 3 cm more than the breadth. Find the area of the rectangle in square centimetres.

4. The length of a room is 3 metres more than its breadth. If the length was increased by 3 metres and the breadth was decreased by 2 metres, the area of the room would remain the same. Find the breadth of the original room in metres.
