

Year 4 Term 3 Homework

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

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9 Year 4 Term 3 Week 9 Homework

9.1 Topic 1 — Decimals (Revision)

Exercise 9.1.1

1. Jenny has twelve lengths of string. Each one is 86 cm long. If they are placed end to end, how many metres will they cover?

2. The total bus fare for 2 adults and 3 children is \$15.00. If the children's fare was \$1.60 each, how much is each adult fare?

3. If a packet of cookies has a mass of 0.182 kg, what would be the mass of 35 packets in kilograms?

4. Find the length of a rectangle with a perimeter of 2.4 m and breadth of 35 cm.

5. If 9 exercise books cost \$12.33, what is the cost of 5 exercise books?

6. Complete the table below:

Decimal	Percentage	Simplest fraction	Decimal	Percentage	Simplest fraction
0.59			1.25		
	68%			135%	
		$\frac{3}{5}$			$\frac{5}{8}$

9.2 Topic 2 — Percentages**Exercise 9.2.1**

1. Express $\frac{1}{4}$ as a percentage. _____
2. Express $\frac{1}{40}$ as a percentage. _____
3. Express $\frac{3}{25}$ as percentage. _____
4. Express $\frac{13}{25}$ as a percentage. _____
5. Express $\frac{2}{125}$ as a percentage. _____
6. Express $\frac{1}{50}$ as percentage. _____
7. Express $\frac{1}{500}$ as percentage. _____
8. Express $\frac{6}{8}$ as percentage. _____
9. Express $\frac{3}{8}$ as percentage. _____
10. Express $\frac{1}{8}$ as percentage. _____

Exercise 9.2.2

1. 20% of 120 is: _____
2. 25% of 260 is: _____
3. 40% of 160 is: _____
4. If 50% of a number is 20, what is the number? _____
5. If 25% of a number is 20, what is the number? _____
6. If 20% of a number is 50, what is the number? _____
7. If 40% of a number is 80, what is the number? _____
8. If 10% of a number is 25, what is the number? _____

9.3 Topic 3 — Ratio

Exercise 9.3.1

1. Oranges are sold at a rate of 15 for \$4.50. How many can be bought for \$27?

2. 4 kg of sugar cost \$2.80. How much will it cost to buy 5 kg?

3. A car travels 150 km in two hours. At this rate how far does the car travel in 5 hours?

4. Ben and Ken shared some marbles. The ratio of their shares is 3:1. How many marbles did Ben get if Ken had 21 marbles?

5. A son and his father have a combined age of 96 years. The ratio of the son's age to his father's age is 3:5. Find both their ages.

6. Mike reads 135 pages each day. The ratio of pages he read in the morning to that at night is 4 to 5. How many pages does Mike read in the morning?

9.4 Topic 4 — Divisibility

1. What is the largest number under 100 that is divisible by both 8 and 11?

2. What is the smallest number that is greater than 400 and divisible by 11?

3. What is the largest number that is smaller than 400 and is divisible by both 8 and 11?

4. What is the smallest number that is divisible by 8, 10 and 11?

5. What is the next number after 1000 that is divisible by 8, 10 and 11?

6. What is the smallest number that is greater than 100 and is divisible by both 3 and 4?

9.5 Problem Solving 1 (Averaging)

Exercise 9.5.1

1. The average weight of 3 girls is 38.5 kg. The average weight of 4 boys is 42.5 kg. Find the total weight of the 7 children.

2. The beach is 20 km away. We drive at an average 40 km/h on the way there and 50 km/h on the way home. What was the average speed for the entire trip?

3. Gary's average score for 5 tests was 18. What did he score in his last test if his other scores were 16, 15, 17 and 20?

4. Jack's average scores for the first 4 tests was 88. What score must he get for the last test to have an average score of 90?

5. The average scores of Jenny's first 4 tests were 85 and the average of her last 6 tests were 88. What was her average score to the ten tests?

9.6 Problem Solving 2 (Guess and Check)**Exercise 9.6.1**

1. Williams family has a total eight pets. All either birds or dogs. If they counted 28 legs in total, how many of each animal are there?

2. John bought 2 sausage rolls and 1 meat pie and paid \$10.10 altogether. If a meat pie is more expensive than a sausage roll by \$1.70, what is the cost of one sausage roll?

3. Adam had 29 marbles less than Bob. Calvin has 11 marbles less than Bob. The total number of marbles that three boys have is 98. How many marbles does each boy have?

4. Adam is $\frac{3}{4}$ as old as Kevin. If their combined ages equal 49 years, how old is Adam?

5. There are between 40 and 50 pupils in the school library. If you count them by 6 or 7 there are 3 left over. How many children are there in the library?

9.7 Quiz 9**9.7.1 Part A**

1. Simplify $4 + 5 \times 3^2 - 5$.
A. 44 B. 9 C. 32 D. 24
2. Express $\frac{7}{20}$ as a percentage:
A. 25% B. 35% C. 45% D. 27%
3. 40% of 260 is:
A. 94 B. 102 C. 86 D. 104
4. If 20% of a number is 25, what is the number?
A. 125 B. 100 C. 150 D. 120
5. Change 4 km 45 m 56 cm into metres:
A. 445.56 m B. 4045.56 m C. 44556 m D. 40455.6 m
6. 55% is the same as how many parts out of 20?
A. 9 B. 11 C. 13 D. 15
7. 40% of 4 km equals:
A. 1 km B. 0.16 km C. 160 m D. 1600 m
8. Which of the following would be equal to $5 + \frac{12}{100} + \frac{3}{10}$?
A. 5.15 B. 5.125 C. 5.312 D. 5.42
9. Which one has the bigger value? $40\% \times 60$ or $60\% \times 40$
A. $40\% \times 60$ B. $60\% \times 40$ C. they are equal D. none of these
10. Find the LCM of 8, 12, 24.
A. 24 B. 36 C. 48 D. 96
11. The value of 0.6×0.06 is:
A. 0.36 B. 0.036 C. 0.0036 D. 3.6

9.7.2 Part B

1. 40% of a number is 24. Find the number. _____

2. 80% of a number is 200. Find the number. _____

3. If two apples weigh the same as an orange, and three oranges weigh the same as four lemons, then how many apples will weigh the same as 24 lemons?

4. What is the smallest number which is exactly divisible by 18 and 24? That is, what is the lowest common multiple of 18 and 24?

5. A trip took 68 minutes and we arrived at 8:12 am. At what time did we leave?

6. I spent $\frac{3}{5}$ of my money leaving me with \$35. How much did I start with?

7. If 30% of a number is 90, what would 20% of the same number be?

8. If 20% of a number is 120, what would 30% of the same number be?

9.7.3 Part C

1. Joe cut a circular pizza using 3 straight cuts. What would be the greatest number of pieces he could get with these cuts?

2. David receives \$20 pocket money each week. He saves all but \$5 of it in order to buy a Nintendo DS which costs \$189. How much will he still have to save after eight weeks?

3. On the way home, 30% of an ice-block had melted leaving 140 g. What was the original weight in grams?

4. In Year 4 at a particular school, 100 students out of 125 are taller than 130 cm. What percentage of the students are not taller than 130 cm?

5. I lost 40% of my money. I now have \$24. How much did I lose?

9.7.4 Part D

1. After football, two boys were collecting cans and bottles for recycling. They collected 144 containers in total, finding twice as many cans as bottles. If cans are worth 5 cents, and bottles are worth two cents more, how much money would the two boys make?

2. Daniel took his mum and twelve friends ice skating for his eighth birthday party. An adult's ticket costs \$12, and a children's ticket was half the price of an adult's ticket. In groups of over ten people, every fourth child could get in for free. How much did it cost for the group to go ice skating?

3. Last year, Keith saved \$800 each month. This year he increased his monthly savings by 25%.

(a) How much is Keith's monthly savings this year?

(b) At this rate, how long will it take Keith to save enough money to buy a new LCD TV which costs \$4000?

4. 120% of a number is 42. Find the number.
