

Year 5 Term 1 Homework

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

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8 Year 5 Term 1 Week 8 Homework

8.1 Topic 1 — Decimals

Exercise 8.1.1 Evaluate the following expressions:

1. $2.8 \div 0.4 - 2.8 \times 0.4 =$ _____

2. $2.8 \times 0.4 + 2.8 \div 0.4 =$ _____

3. $(2.8 - 0.3) \times (2.8 + 0.3) =$ _____

4. $(2.8 + 0.3) \div (2.8 - 0.3) =$ _____

5. $14.4 \times 6 \div 3 =$ _____

6. $14.4 \div 6 \times 3 =$ _____

7. $5.6 \div 7 \times 8 - 1.2 =$ _____

8. $5.6 \times 7 \div 8 + 1.2 =$ _____

Exercise 8.1.2 Change the following decimals to percentages

1. $1.25 =$ _____

2. $2.75 =$ _____

3. $0.15 =$ _____

4. $1.08 =$ _____

5. $10.8 =$ _____

6. $1.8 =$ _____

7. $0.04 =$ _____

8. $0.0125 =$ _____

8.2 Topic 2 — Fractions**Exercise 8.2.1 Change the following fractions to decimals:**

1. $3\frac{1}{4} =$ _____

2. $4\frac{1}{3} =$ _____

3. $5\frac{3}{4} =$ _____

4. $6\frac{5}{8} =$ _____

5. $7\frac{3}{8} =$ _____

6. $\frac{13}{4} =$ _____

7. $\frac{23}{8} =$ _____

8. $\frac{23}{20} =$ _____

Exercise 8.2.2 Change the following fractions to percentages:

1. $1\frac{1}{8} =$ _____

2. $\frac{3}{8} =$ _____

3. $2\frac{2}{5} =$ _____

4. $\frac{16}{5} =$ _____

5. $\frac{36}{40} =$ _____

6. $\frac{45}{60} =$ _____

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

8. $\frac{203}{200} =$ _____

8.3 Topic 3 — Percentages

Exercise 8.3.1 Evaluate the following:

1. 60% of a number is 24. Find the number.

2. 75% of a number is 432. Find the number.

3. 120% of a number is 84. Find the number.

Exercise 8.3.2 Ben earns \$500 per month. He saves 40% of his monthly salary.

1. How much is his monthly savings?

2. If Ben increases his monthly savings by 20%, how much will his monthly savings be?

Exercise 8.3.3 In 2006, the monthly salaries of Emma and Carol were \$2200 and \$1400 respectively. In 2007, each of them received a pay increase of 15%.

1. How much more did Carol earn in 2007 than in 2006?

2. How much more did Emma earn than Carol in 2007?

8.4 Problem Solving (Ratio)

Exercise 8.4.1

1. The ratio of the length of a ribbon to that of a rope is $5 : 3$. The ribbon is 35 cm long. How much longer is the ribbon than the rope?

2. The ratio of the number of boys and girls in a school is $4 : 5$. There are 86 more girls than boys. What is the enrolment of the school?

3. The ratio of Ken's money to Charles' money is $4 : 7$. Charles has \$360 more than Ken. How much money do they have altogether?

4. The ratio of the mass of Tony and Graham is $8 : 9$. Tony is 8 kg lighter than Graham. Find the total mass of the two men.

8.5 Test Paper 8

8.5.1 Part A — Multiple Choice Questions

- Find the quotient of 8.75 and 5.
A. 13.75 B. 3.75 C. 1.75 D. 43.75
- What is the difference between $3\frac{1}{4}$ and $2\frac{1}{12}$?
A. $5\frac{1}{3}$ B. $1\frac{1}{6}$ C. $1\frac{1}{12}$ D. $1\frac{1}{4}$
- Find the average of 20,13,21,24 and 18.
A. 19.2 B. 16 C. 96 D. 18.2
- Find the number which is halfway between 12.37 and 8.31.
A. 10.34 B. 4.06 C. 10.84 D. 20.68
- Use a quick method to find $59 + 37 + 111 - 19 - 37$.
A. 188 B. 141 C. 189 D. 151
- Use a quick method to find $4 \times 765 \times 25$.
A. 765000 B. 8650 C. 76500 D. 86500
- Find out what the symbols represent. If $A \triangle B = A \times B - (A + B)$, $7 \triangle 9 =$
A. 47 B. 65 C. 57 D. 63
- What is the difference between 9876 and 789 in the value of the 9's?
A. 9867 B. 8999 C. 8991 D. 9087
- If $8 \times 125 = 1000$, $80000 \times 0.125 =$
A. 100,000 B. 1000 C. 100 D. 10,000
- Write the best approximation to 19.73×30.21 to the nearest hundred.
A. 590 B. 600 C. 500 D. 596
- The sum of two numbers is 14 and the sum of their square is 100. Find the numbers.
A. 3 and 11 B. 6 and 8 C. 4 and 10 D. 5 and 9
- $0.2 + 1\frac{5}{6} =$
A. $2\frac{1}{6}$ B. $1\frac{1}{30}$ C. $2\frac{1}{30}$ D. $2\frac{7}{10}$

8.5.2 Part B — Average Questions

1. $\sqrt{144} \div \sqrt{16} =$ _____

2. $1^2 + 2^3 + 3^4 =$ _____

3. How many eighths are there in $4\frac{1}{4}$?

4. 80% of a number is 952. Find the number.

5. 20% of a number is 16. What is the number?

6. An explorer walks 5 km north from his base camp. He turns and walks 5 km east. Turning again he walks 10 km south. What way will he have to face to return directly to his base?

7. A 7 kg bag of biscuits is divided into smaller bags with 250 g in each bag. How many 250 g bags will be filled?

8. What is the square of the product of 5 and 6?

9. Half the difference of 18 and 6 is divided by twice their sum. What is the answer?

10. At a school 25% of students travel by bus, 40% come by car, 8% ride bikes while the rest walk. If the school has 500 students, how many walk?

8.5.3 Part C — Extension Questions

1. A pole 240 m long is painted red and white in the ratio of 7:9. What length of the pole is painted white?

2. A man ran 467 metres and walked 253 metres before sitting down to rest. How much further does he have to go before he has completed 1 kilometre?

3. The petrol tank in our car holds 65 litres. The car uses 10 litres every 100 kilometres. How many more times would we need to fill the car on a long journey of 1440 kilometres if the tank was full before the trip?

4. A notebook and a pencil cost \$2.50. The pencil cost 40¢. How much more than the pencil did the note book cost?

5. If \$144 was divided equally among 6 people and one sixth of each person's share was collected for charity, how would the charity receive?

8.5.4 Part D — Challenging Problems

1. The ratio of the number of men to the number of women at a party was 4:6. There were 38 more women than men. How many people were there at the party?

2. Last month, Bonnie put 80 cents into her piggy bank daily. This month, she increases the amount by 40%. At this rate, how much more will Bonnie be able to save in a month which there are 30 days?

3. Alice paid \$24.80 for an notebook, a folder and a pen. The pen cost \$2.50 more than the notebook and \$1.50 more than the folder. Find the cost of each item.

4. The total length of a rope, a string and a wire is 158m. The rope is 2.5 m longer than the string and 5.1 m longer than the wire. Find the total length of the rope and the wire.
