

## Year 5 Term 1 Homework

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

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## 7 Year 5 Term 1 Week 7

### 7.1 Topic 1 — Decimals

**Exercise 7.1.1 Multiply the following decimals:**

1.  $8.5 \times 1.4 =$  \_\_\_\_\_

2.  $0.06 \times 0.05 =$  \_\_\_\_\_

3.  $12.8 \times 3.1 =$  \_\_\_\_\_

4.  $2.35 \times 150 =$  \_\_\_\_\_

5.  $5.12 \times 0.65 =$  \_\_\_\_\_

**Exercise 7.1.2 Calculate the following divisions:**

1.  $4 \div 25 =$  \_\_\_\_\_

2.  $8.56 \div 4 =$  \_\_\_\_\_

3.  $28.48 \div 3.2 =$  \_\_\_\_\_

4.  $9.12 \div 0.4 =$  \_\_\_\_\_

5.  $13.2 \div 0.8 =$  \_\_\_\_\_

**Exercise 7.1.3 Change the following decimals to percentages:**

1.  $0.24 =$  \_\_\_\_\_

2.  $1.125 =$  \_\_\_\_\_

3.  $0.08 =$  \_\_\_\_\_

4.  $0.105 =$  \_\_\_\_\_

5.  $5.25 =$  \_\_\_\_\_

**7.2 Topic 2 — Fractions****Exercise 7.2.1 Change the following fractions to decimals:**

1.  $2\frac{1}{8} =$  \_\_\_\_\_

2.  $3\frac{1}{3} =$  \_\_\_\_\_

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

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

5.  $\frac{3}{8} =$  \_\_\_\_\_

**Exercise 7.2.2 Change the following decimals to fractions:**

1.  $2.25 =$  \_\_\_\_\_

2.  $3.1\dot{6} =$  \_\_\_\_\_

3.  $0.375 =$  \_\_\_\_\_

4.  $1.75 =$  \_\_\_\_\_

5.  $0.08 =$  \_\_\_\_\_

**Exercise 7.2.3 Change the following fractions to percentages:**

1.  $\frac{1}{5} =$  \_\_\_\_\_

2.  $\frac{1}{8} =$  \_\_\_\_\_

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

4.  $\frac{12}{5} =$  \_\_\_\_\_

5.  $\frac{30}{80} =$  \_\_\_\_\_

### 7.3 Topic 3 — Percentages (%)

#### Exercise 7.3.1

1. Increase \$75 by 15%.

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2. Decrease \$75 by 15%.

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3. Find 90% of \$386.

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4. In a class of 28 children, if 25% of them wear glasses, how many children do not wear glasses?

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5. Out of 380 students, 75% of them play sport during the weekend. How many students do not play sport?

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6. Kevin obtained 60 out of 75 marks in a maths test. What percentage was this?

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7. 25% of a number is 45. What is the number?

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### 7.4 Problem Solving (Odds and Evens)

#### Exercise 7.4.1

1. Complete the tables shown below:

			odd					
			+	1	3			
odd	1							
3								

(A)

			even					
			+	2	4			
even	2							
4								

(B)

			odd					
			+	3	5			
even	4							
6								

(C)

			odd					
			x	1	3			
odd	1							
3								

(D)

			even					
			x	2	4			
even	2							
4								

(E)

			odd					
			x	3	5			
even	4							
6								

(F)

2. Use the results you have obtained to complete the following tables:

+	O	E
O		
E		

(A)

x	O	E
O		
E		

(B)

3. From your observations state these sentences either "True" or "False".

(a) The sum of two even numbers is always even. \_\_\_\_\_

(b) The sum of two odd numbers is always odd. \_\_\_\_\_

(c) The product of two even numbers is always even. \_\_\_\_\_

(d) The product of two odd numbers is always odd. \_\_\_\_\_

(e) The sum of three even numbers is always even. \_\_\_\_\_

(f) The product of three even numbers is always even. \_\_\_\_\_

(g) The difference of two even numbers is always even. \_\_\_\_\_

(h) The quotient of two even numbers is always even. \_\_\_\_\_

## 7.5 Test Paper 7

### 7.5.1 Part A — Quick Questions

1.  $18 + (64 \div 8) =$  \_\_\_\_\_
2.  $3 \times 25 \times 4 =$  \_\_\_\_\_
3.  $\sqrt{36} \times \sqrt{64} =$  \_\_\_\_\_
4.  $2^4 \times 3^2 =$  \_\_\_\_\_
5.  $9 \times 6 + 7 \times 6$  \_\_\_\_\_
6. 1 hectare = \_\_\_\_\_  $m^2$ .
7. 8 metres = \_\_\_\_\_ millimetres.
8. Find the average of 5, 6, 9, 8 and 2. \_\_\_\_\_
9. 4 items for 20 cents. How many items for 80c? \_\_\_\_\_
10. Square 25 \_\_\_\_\_
11.  $680 \div 4 \div 2 =$  \_\_\_\_\_
12.  $380 + 512 + 10 =$  \_\_\_\_\_
13.  $20 \times 63 \times 5 =$  \_\_\_\_\_
14.  $(4 \times 15) + (3 \times 15) =$  \_\_\_\_\_
15. 75% of 28 = \_\_\_\_\_
16.  $\sqrt{1600} = 40$ . True or false? \_\_\_\_\_
17.  $96008 \div 8 =$  \_\_\_\_\_
18. Write the first four square numbers. \_\_\_\_\_
19. Change  $\frac{3}{4}$  into a percentage. \_\_\_\_\_
20. Write 2564 as a Roman numeral. \_\_\_\_\_

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21. What is the Roman numeral for 499? \_\_\_\_\_
  22. 10% of \$7.50. \_\_\_\_\_
  23. Write 2.5 as a percentage. \_\_\_\_\_
  24. What is the next prime number after 43? \_\_\_\_\_
  25. What is the only even number that is also prime? \_\_\_\_\_
  26. What fraction of 40 is 8? \_\_\_\_\_
  27. Find the remainder when 147 divided by 5? \_\_\_\_\_
  28. How many degrees in a straight angle? \_\_\_\_\_
  29. How many sides does a trapezium have? \_\_\_\_\_
  30. How many faces does a triangular prism have? \_\_\_\_\_
  31. Change  $1\frac{1}{8}$  to a decimal. \_\_\_\_\_
  32. Write  $3\frac{3}{7}$  as an improper fraction. \_\_\_\_\_
  33. How many halves in  $9\frac{1}{2}$ ? \_\_\_\_\_
  34. Write 0.15 as a fraction. \_\_\_\_\_
  35. How many degrees are there in 2 revolutions? \_\_\_\_\_
  36. Evaluate  $3 \times 10^4 + 4 \times 10^2 + 2 \times 10^1$ . \_\_\_\_\_
  37. Find two prime numbers that add together to give 15. \_\_\_\_\_
  38. Increase \$80 by 50% \_\_\_\_\_
  39. Decreased \$80 by 20%. \_\_\_\_\_
  40. 20% of a number is 24. What is the number? \_\_\_\_\_
  41. Write 500% as a whole number. \_\_\_\_\_
  42. Find 25% of \$2500. \_\_\_\_\_

**7.5.2 Part B — Average Questions**

1. What is the difference in the number of axes of symmetry of a rectangle and a square?

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2. Find two numbers whose sum is 19 and their product is 84.

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3. The area of a rectangle is  $72 \text{ cm}^2$ . Its length is 9 cm. What is its breadth?

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4. Find two numbers whose product is zero but has a sum of 18.

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5. How many tenths are there in one half?

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6. How many kilograms are there in 0.75 tonnes?

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7. A train leaves a station at 5.25 p.m. and arrives at its destination at 2.45 p.m. the next day. How long does it take for the journey?

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8. What is the difference between the value of the first 5 and the second 5 in the number 5.35?

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**7.5.3 Part C — Extension Questions**

1. The volume of a closed cube is  $27 \text{ cm}^3$ . What is the total surface area in  $\text{cm}^2$ ?

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2. If a discount of 20% is given on an item selling for \$180, what is the actually paid for the item?

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3. How far will Mike walk in 50 minutes if he walks at the rate of 6 km/h?

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4. The circumference of a car tyre is 2 m. If the tyre is revolving 5 times every second, how far will the car travel in 2 minutes?

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5. \$56.84 is shared equally between 6 children. How much is left over?

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6. If  $\frac{3}{8}$  of a number is 24, what is the number?

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7. A piece of timber is 9 m long. How many cuts must be made to cut it in to 1.5 m lengths?

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**7.5.4 Part D — Challenging Problems**

1. There are five teams in a cricket competition and each team plays each other team once. How many games are played altogether?

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2. Peter wishes to buy a laptop priced at \$1200. He pays one-sixth as a deposit and the rest in 8 equal monthly payments. How much he pay each month?

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3. There are 360 pages in a book. Emma has finished reading  $\frac{2}{5}$  of them. How many more pages does she have to read to complete the book?

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4. A TV is to be paid off by 12 monthly instalments of \$120. How much still have to be paid after 5 months?

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5. Each month a man spends  $\frac{2}{7}$  of his income and saves \$800. What is his yearly income?

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