

## Year 4 Term 2 Homework

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

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## 5 Year 4 Term 2 Week 5 Homework

### 5.1 Topic 1 — Fractions

#### 5.1.1 Adding & subtracting Fractions 1

$$\textcircled{1} \quad 2\frac{1}{4} + 1\frac{2}{4} = \underline{\hspace{10em}}$$

$$\textcircled{2} \quad 1\frac{2}{4} - \frac{4}{6} = \underline{\hspace{10em}}$$

$$\textcircled{3} \quad 1\frac{4}{6} + 1\frac{4}{7} = \underline{\hspace{10em}}$$

$$\textcircled{4} \quad 2\frac{5}{7} - 2\frac{1}{4} = \underline{\hspace{10em}}$$

$$\textcircled{5} \quad 2\frac{1}{7} - 1\frac{4}{5} = \underline{\hspace{10em}}$$

$$\textcircled{6} \quad 2\frac{1}{3} - 1\frac{3}{4} = \underline{\hspace{10em}}$$

$$\textcircled{7} \quad 1\frac{1}{5} + 2\frac{1}{2} = \underline{\hspace{10em}}$$

$$\textcircled{8} \quad 1\frac{3}{6} + 1\frac{3}{5} = \underline{\hspace{10em}}$$

$$\textcircled{9} \quad 2\frac{2}{3} - 1\frac{5}{6} = \underline{\hspace{10em}}$$

$$\textcircled{10} \quad 2\frac{2}{5} + 2\frac{1}{7} = \underline{\hspace{10em}}$$

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Score:

**5.1.2 Multiplying & Dividing Fractions 1**

$$\textcircled{1} \quad 1\frac{4}{5} \div 2\frac{2}{3} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad 2\frac{2}{7} \div 1\frac{2}{4} = \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad 1\frac{3}{7} \times 2\frac{1}{2} = \underline{\hspace{10cm}}$$

$$\textcircled{4} \quad 1\frac{2}{5} \times 1\frac{1}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{5} \quad 1\frac{2}{3} \times 2\frac{5}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad 1\frac{5}{6} \times 2\frac{2}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad 2\frac{3}{6} \div 2\frac{1}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad 2\frac{1}{4} \div 1\frac{4}{6} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad 1\frac{1}{2} \times 1\frac{4}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad 1\frac{4}{6} \times 1\frac{1}{6} = \underline{\hspace{10cm}}$$

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Score: \_\_\_\_\_

**5.2 Topic 2 — Number Problems****5.2.1 Number Problem 5**

- ① \_\_\_\_\_ Twice a number increased by 9 is 25. Find the number.
- ② \_\_\_\_\_ One-third of a number decreased by 1 is 1. Find the number.
- ③ \_\_\_\_\_ Four times a number diminished by 29 is 7. Find the number.
- ④ \_\_\_\_\_ The quotient of a number and ten increased by 4 is 7. What is the number?
- ⑤ \_\_\_\_\_ One-half of a number is 2. Find the number.
- ⑥ \_\_\_\_\_ The quotient of a number and six is 7. Find the number.
- ⑦ \_\_\_\_\_ One-third of a number increased by 7 is 12. What is the number?
- ⑧ \_\_\_\_\_ 10 is equal to the product of five and some number. Find the number.
- ⑨ \_\_\_\_\_ The product of eight and a number is 48. What is the number?
- ⑩ \_\_\_\_\_ Nine times a number increased by 3 is 93. Find the number.

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Score:

**5.2.2 Number Problem 6**

- ① \_\_\_\_\_ Eight times a number increased by 10 is 98. Find the number.
- ② \_\_\_\_\_ One-third of a number increased by 2 is 8. What is the number?
- ③ \_\_\_\_\_ Three times a number decreased by 2 is 4. Find the number.
- ④ \_\_\_\_\_ 84 is equal to the product of six and some number. Find the number.
- ⑤ \_\_\_\_\_ The quotient of a number and three increased by 6 is 13. What is the number?
- ⑥ \_\_\_\_\_ The quotient of a number and ten is 3. Find the number.
- ⑦ \_\_\_\_\_ One-fifth of a number decreased by 11 is -6. Find the number.
- ⑧ \_\_\_\_\_ Two-fifths of a number is 4. Find the number.
- ⑨ \_\_\_\_\_ The product of seven and a number is 56. What is the number?
- ⑩ \_\_\_\_\_ Eight times a number increased by 5 is 61. Find the number.

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Score:

**5.3 Topic 3 — Percentages****5.3.1 Percentage 9**

① \_\_\_\_\_ of \$50.00 = \$5.00

② \_\_\_\_\_ of \$2.00 = \$1.00

③ 25% of \_\_\_\_\_ = \$9.00

④ \_\_\_\_\_ of \$20.00 = \$5.00

⑤ 10% of \_\_\_\_\_ = \$18.00

⑥ 25% of \$36.00 = \_\_\_\_\_

⑦ 50% of \_\_\_\_\_ = \$7.00

⑧ 20% of \$70.00 = \_\_\_\_\_

⑨ 10% of \_\_\_\_\_ = \$18.00

⑩ \_\_\_\_\_ of \$90.00 = \$9.00

⑪ \_\_\_\_\_ of \$32.00 = \$16.00

⑫ \_\_\_\_\_ of \$100.00 = \$20.00

⑬ 20% of \$100.00 = \_\_\_\_\_

⑭ 50% of \_\_\_\_\_ = \$12.00

⑮ \_\_\_\_\_ of \$40.00 = \$4.00

⑯ \_\_\_\_\_ of \$55.00 = \$11.00

⑰ 50% of \$10.00 = \_\_\_\_\_

⑱ 10% of \$80.00 = \_\_\_\_\_

⑲ 20% of \$45.00 = \_\_\_\_\_

⑳ \_\_\_\_\_ of \$36.00 = \$18.00

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Score: \_\_\_\_\_

**5.3.2 Percentage 10**

① 50% of \_\_\_\_\_ = \$13.00

② \_\_\_\_\_ of \$30.00 = \$3.00

③ 20% of \_\_\_\_\_ = \$13.00

④ \_\_\_\_\_ of \$40.00 = \$4.00

⑤ \_\_\_\_\_ of \$40.00 = \$8.00

⑥ 20% of \$35.00 = \_\_\_\_\_

⑦ \_\_\_\_\_ of \$10.00 = \$2.00

⑧ 25% of \_\_\_\_\_ = \$11.00

⑨ 20% of \_\_\_\_\_ = \$16.00

⑩ 50% of \$8.00 = \_\_\_\_\_

⑪ \_\_\_\_\_ of \$40.00 = \$20.00

⑫ \_\_\_\_\_ of \$44.00 = \$11.00

⑬ 25% of \_\_\_\_\_ = \$14.00

⑭ \_\_\_\_\_ of \$40.00 = \$10.00

⑮ 20% of \_\_\_\_\_ = \$14.00

⑯ \_\_\_\_\_ of \$4.00 = \$1.00

⑰ 25% of \_\_\_\_\_ = \$4.00

⑱ 50% of \$6.00 = \_\_\_\_\_

⑲ \_\_\_\_\_ of \$40.00 = \$8.00

⑳ 50% of \_\_\_\_\_ = \$4.00

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Score:

**5.4 Topic 4 — Number Patterns****5.4.1 Number Patterns 1**

① 14, 17, 22, 29, 38, 49, 62, \_\_, \_\_

② 40, 44, 45, 50, 51, 57, 58, \_\_, \_\_

③ 7, 14, 11, 22, 19, 38, 35, \_\_, \_\_

④ 17, 18, 21, 26, 33, 42, 53, \_\_, \_\_

⑤ 92, 89, 84, 77, 68, 57, 44, \_\_, \_\_

⑥ 20, 25, 22, 27, 24, 29, 26, \_\_, \_\_

⑦ 53, 48, 52, 46, 50, 43, 47, \_\_, \_\_

⑧ 62, 68, 67, 74, 73, 81, 80, \_\_, \_\_

⑨ 38, 37, 43, 42, 48, 47, 53, \_\_, \_\_

⑩ 2, 4, 7, 14, 17, 34, 37, \_\_, \_\_

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Score:



**5.4.2 Number Patterns 2**

① 31, 28, 34, 31, 37, 34, 40, \_\_\_ , \_\_\_

② 5, 10, 9, 18, 17, 34, 33, \_\_\_ , \_\_\_

③ 59, 64, 59, 65, 60, 67, 62, \_\_\_ , \_\_\_

④ 10, 15, 21, 28, 36, 45, 55, \_\_\_ , \_\_\_

⑤ 21, 30, 38, 45, 51, 56, 60, \_\_\_ , \_\_\_

⑥ 26, 29, 27, 30, 28, 31, 29, \_\_\_ , \_\_\_

⑦ 31, 39, 43, 52, 56, 66, 70, \_\_\_ , \_\_\_

⑧ 25, 29, 27, 31, 29, 33, 31, \_\_\_ , \_\_\_

⑨ 65, 68, 67, 70, 69, 72, 71, \_\_\_ , \_\_\_

⑩ 7, 14, 11, 22, 19, 38, 35, \_\_\_ , \_\_\_

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Score:

## 5.5 Quiz 5

### 5.5.1 Part A — 10 Multiple Choice Questions (1 mark each)

1. A rectangle has a perimeter of 48 cm. Its length is three times its width. Its area will be:  
(A)  $48 \text{ cm}^2$                       (B)  $108 \text{ cm}^2$                       (C)  $128 \text{ cm}^2$                       (D)  $72 \text{ cm}^2$
2. How many days are in October, November and December?  
(A) 90 days                      (B) 91 days                      (C) 92 days                      (D) 93 days
3. What number belongs in the square so as to make the number sentence true?  $\square \times 3 + 8 = 26$   
(A) 2                      (B) 4                      (C) 6                      (D) 8
4. There are 29 children in our class at school. The number of girl is 3 less than the number of boys. How many boys are in the class?  
(A) 14                      (B) 16                      (C) 18                      (D) 13
5. In a factory, it made 8742 TV sets in the month of August, on average, how many TV sets did they make each day?  
(A) 252                      (B) 262                      (C) 272                      (D) 282
6. Peter bought \$6.65 worth of cardboard which costs 95 cents per sheet. How many sheets did he buy?  
(A) 5                      (B) 6                      (C) 7                      (D) 8
7. There are 820 students this year going on an excursion by bus. If each bus can carry 48 students, how many buses will be needed to pick them up?  
(A) 16                      (B) 17                      (C) 18                      (D) 20
8. What is the lowest common multiple of 4, 6 and 12?  
(A) 12                      (B) 24                      (C) 36                      (D) 48
9. What is the lowest common multiple of 4, 8 and 12?  
(A) 12                      (B) 24                      (C) 36                      (D) 48
10. What is the lowest common multiple of 6, 8 and 12?  
(A) 12                      (B) 24                      (C) 36                      (D) 48

**5.5.2 Part B — 10 Average Questions (2 marks each)**

1. From a 400 m ribbon, I cut pieces of 35m each. How many 35 m pieces will I have and what length is leftover?

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2. A 40" LCD TV was marked \$890.00, but we got a discount of 10%. How much did we pay?

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3. In the first hour we travelled 60 km and in the second hour 78 km. What was our average speed?

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4. In Ben's piggy bank, there are 5 ten-cents coins, 6 twenty-cents, 7 fifty-cents, 8 \$1 coins and 10 \$2 coins. How much money has Ben saved?

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5. On Saturday 3500 tickets of the football game were sold and on the Sunday 4,600 more tickets were sold. If each ticket costs \$12, how much was collected?

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6. Peter is placing fencing around his farm, which is 120 metres wide and 180 metres long. Fencing costs \$12.50 per metre. How much will the fencing cost?

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7. Four girls in a group purchased 10 metres of fabric to make skirts and 8 metres of fabric to make blouses. If the fabric cost \$12.80 per metre, and the girls share the cost equally, how much will each girl have to pay?

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8. Each week day I spend 45 minutes and 50 minutes on the weekend practising the piano. How many minutes do I spend each week?

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9. Linda's step is 75 cm long and Jane's is 70 cm. How much further will Linda travel if they both take 50 steps?

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10. Ken bought 5 CDs and paid \$29.50 each. What is his change from three \$50.00 notes?

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**5.5.3 Part C — 10 Extension Questions (3 marks each)**

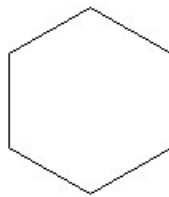
1. Change an exam mark of 60 out of 80 to a percentage.

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2. How many axes of symmetry would a regular hexagon have?



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3. When 2 is multiplied itself 6 times and the result is divided by 8, what is the answer?

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4. A ladle holds 500 ml of liquid. How many times would the ladle have to be filled in order to empty a 35 L container?

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5. Find the value of  $12 \times 4 + 3 \times 9 - 2$ .

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6. What number must be placed in the box to make the number statement true?

$$6 \times \boxed{?} - 12 = 60$$

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7. Simplify  $6 \times 6 \times (6 + 6) + 6 =$

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8. How heavy is Tony if he is 12.5 kg heavier than Mike who is 67.25 kg?

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9. A soccer game lasts two hours. Jack played 15 minutes in the first hour and half the time in the second hour. How long did he play?

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10. What is the chance of Cathy tossing two \$1 coins and then both coming up heads?

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**5.5.4 Part D — 8 Challenging Questions (5 marks each)**

1. Sam has two 350 cm logs and wants to cut them into 70 cm long pieces. How many cuts will he have to make?

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2. It costs 45 cents to mail a postcard and 90 cents to mail a letter. Helen wrote to five friends and spent \$3.15. How many postcards and how many letters did she write?

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3. A bottle of cordial costs \$1.20. The drink cost 28 cents more than the bottle. What is the value of the bottle?

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4. John and Daniel together weigh 81 kg. If Daniel weighs 5 kg more than John, how much does each boy weigh?

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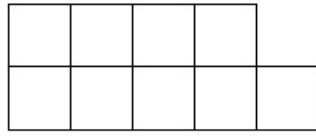
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5. How many squares can you find in this figure shown below:



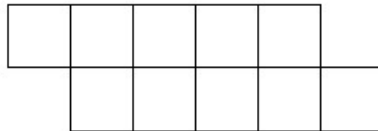
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6. How many rectangles can you find in this figure shown below:



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7. Eight marbles each have the same weight. Five blue marbles weigh altogether 6.5 grams. What would the other marbles weigh?

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8. Bella has \$72, which is 8 times as much as Paula has. How much do they have altogether?

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