

Year 4 Term 2 Homework

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

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This edition was printed on June 2, 2017 with **answers**.

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4 Year 4 Term 2 Week 4 Homework**4.1 Topic 1 — Fractions****4.1.1 Comparing Fractions 4**

① $\frac{5}{2} \square \frac{14}{6}$

② $\frac{2}{7} \square \frac{63}{81}$

③ $\frac{8}{5} \square \frac{14}{49}$

④ $\frac{20}{80} \square \frac{5}{15}$

⑤ $\frac{15}{6} \square \frac{6}{8}$

⑥ $\frac{18}{20} \square \frac{2}{3}$

⑦ $\frac{7}{5} \square \frac{3}{6}$

⑧ $\frac{5}{9} \square \frac{3}{10}$

⑨ $\frac{2}{4} \square \frac{22}{10}$

⑩ $\frac{3}{4} \square \frac{35}{63}$

⑪ $\frac{17}{6} \square \frac{9}{5}$

⑫ $\frac{24}{60} \square \frac{8}{16}$

⑬ $\frac{17}{8} \square \frac{19}{9}$

⑭ $\frac{5}{3} \square \frac{1}{6}$

⑮ $\frac{13}{6} \square \frac{24}{9}$

⑯ $\frac{20}{32} \square \frac{13}{5}$

⑰ $\frac{3}{9} \square \frac{4}{8}$

⑱ $\frac{1}{10} \square \frac{4}{10}$

⑲ $\frac{24}{9} \square \frac{11}{8}$

⑳ $\frac{14}{5} \square \frac{15}{7}$

㉑ $\frac{8}{7} \square \frac{17}{6}$

Score: _____

4.1.2 Adding Fractions 4

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

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

$$\textcircled{3} \quad \frac{1}{2} + 1\frac{2}{8} = \underline{\hspace{10cm}}$$

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

$$\textcircled{5} \quad \frac{2}{9} + \frac{2}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad 1\frac{8}{9} + \frac{4}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{7} \quad 1\frac{4}{8} + 2\frac{6}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{8} \quad \frac{5}{7} + \frac{6}{9} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad 1\frac{2}{8} + \frac{6}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad 1\frac{6}{9} + 1\frac{5}{7} = \underline{\hspace{10cm}}$$

Score: _____

4.1.3 Subtracting Fractions 4

$$\textcircled{1} \quad 1\frac{1}{3} - \frac{4}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{2} \quad \frac{5}{9} - \frac{5}{10} = \underline{\hspace{10cm}}$$

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

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

$$\textcircled{5} \quad 1\frac{5}{8} - \frac{3}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{6} \quad \frac{6}{9} - \frac{2}{7} = \underline{\hspace{10cm}}$$

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

$$\textcircled{8} \quad 1\frac{5}{7} - 1\frac{4}{7} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad 2\frac{1}{7} - 1\frac{1}{3} = \underline{\hspace{10cm}}$$

$$\textcircled{10} \quad 2\frac{7}{9} - \frac{7}{8} = \underline{\hspace{10cm}}$$

Score:

4.1.4 Multiplying Fractions 4

$$\textcircled{1} \frac{4}{5} \times \frac{1}{3} = \underline{\hspace{10cm}}$$

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

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

$$\textcircled{4} \frac{2}{3} \times 1\frac{3}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{5} 1\frac{3}{4} \times 1\frac{1}{4} = \underline{\hspace{10cm}}$$

$$\textcircled{6} 1\frac{7}{8} \times 1\frac{3}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{7} 1\frac{5}{8} \times \frac{2}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{8} 1\frac{2}{4} \times 1\frac{2}{4} = \underline{\hspace{10cm}}$$

$$\textcircled{9} 1\frac{2}{8} \times 1\frac{3}{7} = \underline{\hspace{10cm}}$$

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

Score: _____

4.1.5 Dividing Fractions 4

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

$$\textcircled{2} \quad \frac{7}{8} \div 1\frac{3}{6} = \underline{\hspace{10cm}}$$

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

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

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

$$\textcircled{6} \quad 1\frac{4}{7} \div 1\frac{4}{5} = \underline{\hspace{10cm}}$$

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

$$\textcircled{8} \quad \frac{2}{5} \div \frac{7}{8} = \underline{\hspace{10cm}}$$

$$\textcircled{9} \quad \frac{5}{7} \div \frac{1}{2} = \underline{\hspace{10cm}}$$

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

Score:

4.2 Topic 2 — Number Problems

4.2.1 Number Problem 3

- ① _____ One-third of a number diminished by 5 is 0. Find the number.
- ② _____ Two-fourths of a number increased by 1 is 3. What is the number?
- ③ _____ The sum of two numbers is 21. One number is five less than the other. Find the numbers.
- ④ _____ One number is four times another. Their sum is 25. Find the numbers.
- ⑤ _____ The quotient of a number and two increased by 5 is 9. What is the number?
- ⑥ _____ Six times a number decreased by 24 is 18. Find the number.
- ⑦ _____ One of two numbers is nine more than the other. The sum of the numbers is 25. Find the numbers.
- ⑧ _____ Four times a number increased by 5 is 21. Find the number.
- ⑨ _____ The product of ten and a number is 60. What is the number?
- ⑩ _____ The product of two numbers is 39. One number is ten less than the other. What are the numbers?

Score:

4.2.2 Number Problem 4

- ① _____ Two more than three times a number is 23. What is the number?
- ② _____ Twice a number increased by 5 is 19. Find the number.
- ③ _____ Two-thirds of a number increased by 2 is 10. What is the number?
- ④ _____ One of two numbers is three more than the other. The sum of the numbers is 15. Find the numbers.
- ⑤ _____ One less than six times a number is 47. Find the number.
- ⑥ _____ One number is ten times another. Their sum is 44. Find the numbers.
- ⑦ _____ The sum of two numbers is 11. One number is five less than the other. Find the numbers.
- ⑧ _____ Two-fifths of a number decreased by 7 is -1. Find the number.
- ⑨ _____ The quotient of a number and three is 3. Find the number.
- ⑩ _____ Four times a number decreased by 14 is 14. Find the number.

Score: _____

4.3 Topic 3 — Decimals

1. Adding Decimals:

(a) $10.5 + 21.5 =$ _____

(b) $10.08 + 2.42 =$ _____

(c) $1.05 + 25.5 =$ _____

(d) $2.06 + 12.4 =$ _____

(e) $100.8 + 10.2 =$ _____

2. Subtracting Decimals:

(a) $26.6 - 4.8 =$ _____

(b) $82.4 - 24.3 =$ _____

(c) $10.5 - 2.25 =$ _____

(d) $10.02 - 2.08 =$ _____

(e) $108.02 - 7.14 =$ _____

3. Multiplying Decimals:

(a) $10.4 \times 1.5 =$ _____

(b) $3.5 \times 12.04 =$ _____

(c) $1.05 \times 0.8 =$ _____

(d) $12.5 \times 2.8 =$ _____

(e) $0.4 \times 0.125 =$ _____

4. Dividing Decimals:

(a) $16.8 \div 0.4 =$ _____

(b) $10 \div 0.25 =$ _____

(c) $28 \div 0.04 =$ _____

(d) $12.8 \div 0.5 =$ _____

(e) $100.5 \div 5 =$ _____

4.4 Topic 4 — Percentages**4.4.1 Percentage 7**

① _____ of \$38.00 = \$19.00

② 20% of _____ = \$15.00

③ 50% of \$4.00 = _____

④ 25% of _____ = \$13.00

⑤ 10% of _____ = \$10.00

⑥ 25% of \$56.00 = _____

⑦ 25% of _____ = \$15.00

⑧ 50% of \$20.00 = _____

⑨ 25% of \$80.00 = _____

⑩ 25% of _____ = \$19.00

⑪ 50% of _____ = \$16.00

⑫ _____ of \$50.00 = \$5.00

⑬ _____ of \$80.00 = \$16.00

⑭ 50% of \$32.00 = _____

⑮ 10% of \$20.00 = _____

⑯ 50% of \$32.00 = _____

⑰ 10% of \$140.00 = _____

⑱ _____ of \$70.00 = \$7.00

⑲ 10% of \$50.00 = _____

⑳ 25% of _____ = \$20.00

Score:

4.4.2 Percentage 8

① 50% of _____ = \$14.00

② _____ of \$36.00 = \$9.00

③ 20% of \$55.00 = _____

④ 25% of _____ = \$1.00

⑤ _____ of \$50.00 = \$5.00

⑥ 50% of \$24.00 = _____

⑦ _____ of \$80.00 = \$8.00

⑧ _____ of \$5.00 = \$1.00

⑨ 20% of _____ = \$3.00

⑩ _____ of \$40.00 = \$10.00

⑪ 20% of \$20.00 = _____

⑫ 20% of _____ = \$14.00

⑬ 10% of \$100.00 = _____

⑭ 10% of \$140.00 = _____

⑮ 50% of \$24.00 = _____

⑯ _____ of \$60.00 = \$6.00

⑰ _____ of \$200.00 = \$20.00

⑱ _____ of \$24.00 = \$12.00

⑲ _____ of \$200.00 = \$20.00

⑳ _____ of \$80.00 = \$20.00

Score: _____

4.5 Quiz 4

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

- What is the next member of this number sequence? 27, 26, 24, 21 . . .
(A) 21 (B) 23 (C) 18 (D) 17
- What is the next member of this number sequence? 2000, 1000, 500, 250, . . .
(A) 200 (B) 125 (C) 100 (D) 249
- What is the next member of this number sequence? 6, 12, 8, 16, 12, 24, 20 . . .
(A) 30 (B) 40 (C) 48 (D) 52
- A rectangle has a perimeter of 24 cm. Its length is twice its width. Its area will be:
(A) 24 cm^2 (B) 28 cm^2 (C) 32 cm^2 (D) 36 cm^2
- These pairs of number are related by the same rule: [4, 9], [10, 81] , [8, 49] and [1, ?].
The number which could replaced the question mark is:
(A) 0 (B) 1 (C) 2 (D) none of them is correct
- The numbers in each pair are connected by the same rule. Use this rule to find the missing number? [5, 8], [10, 18], [2, 2] and [9, ?]
(A) 16 (B) 9 (C) 12 (D) 17
- Which number goes in the \square to make the number sentence correct? $70 - 50 = 40 - \square$
(A) 10 (B) 20 (C) 30 (D) 40
- There are 28 children in our class at school. The number of girls exceed the number of boys by 6. How many girls in the class?
(A) 17 (B) 16 (C) 15 (D) 14
- If the month before last was March, what will the month after next be?
(A) July (B) June (C) March (D) May
- What number belongs in the square so as to make the number sentence true? $\square \times 4 - 8 = 16$
(A) 4 (B) 5 (C) 6 (D) 8

4.5.2 Part B — 10 Average Questions (2 marks each)

1. Mrs Lee bought 20 eggs. She broke 6 of them. What fraction of her eggs were not broken?

2. Ken saves \$6 a week. In how many weeks will he have saved \$108?

3. The total cost of a book and a pen is \$8.40. The book is twice the price of the pen. How much is the pen?

4. Mary is 7 years and 5 months older than her sister, Alice. Alice is 12 years and 3 months old. How old will Mary be in 3 years time?

5. Linda jogged a distance of 3 km and 350 m on Saturday and 2 km and 750 m on Sunday. What total distance did she jog during the weekend?

6. Mum, Dad and I shared a pizza. Dad ate $\frac{1}{2}$ and I ate $\frac{1}{4}$, so how much did mum have?

7. Last weekend Peter spent \$2.50 on erasers and \$3.25 on pencils. If these amounts add up to half his money, how much did he start with?

8. When Mum was cooking today she used $\frac{2}{3}$ dozen eggs in a cake and 2 more in a pie. What fraction of the dozen eggs is left?

9. Martin had 1880 marbles. He put them into 8 equal boxes. How many were in each box?

10. When I multiply two numbers together I get 63. When I subtract the smaller one from the large number I get 2. What are the 2 numbers?

4.5.3 Part C — 10 Extension Questions (3 marks each)

1. A fraction is added to half itself and the answer is 1. What is the fraction?

2. Together a laptop and its case cost \$2000. the laptop cost \$1980 more than the case. What was the cost of the case?

3. The houses on the Helen Street are numbered from 1 to 50. How many houses have at least one "2" in its number?

4. If three ice-creams can be bought for a total of \$1.20, what would I pay for five ice-creams?

5. Five friends stand in a queue. There are 12 people in front of the group and 15 people standing behind the group. How many people are in the queue?

6. Two numbers are multiplied together and the result is 32. These same numbers, when added, gives an answer of 18. What is the difference of these two numbers?

7. A square with a perimeter of 16 cm is divided into two equal rectangle. What is the perimeter of each rectangle?

8. A square with a perimeter of 64 cm is divided into four equal rectangles. What is the sum of perimeters of these four rectangles?

9. One quarter of a fence post was under the group. The height of the post was 150 cm. Find the total length of the post.

10. Find the digit sum of the number 12345.

4.5.4 Part D — 8 Challenging Questions (5 marks each)

1. How many minutes would it take a train half a kilometre long to go through a tunnel one kilometre long if it moves slowly at half a kilometre a minute?

2. A blind person has 6 black socks and 6 white ones all mixed up in a bag. What is the least number of socks that he must take out of the bag in order to be certain he has a matching pair?

3. If you cut an apple into halves and then cut each half again and then cut the remaining pieces into half again, what fraction of the apple are the small pieces now?

4. A tank was full of orange juice. The shopkeeper used $\frac{1}{4}$ of the juice by the end of the day. The next day he used $\frac{1}{2}$ of what was left. If the tank now has 6 litres of juice left over. How many litres does it hold when it is full?

5. In another four years Bonnie will be three times as old as she was four years ago. If it is Bonnie's birthday, how old is she today?

6. Dad said to my sister Jessica: "When you are one third as old as I am, I shall buy you new computer." Jessica is now 12 and Dad is 56. How old will Jessica be when Dad carries out his promise?

7. $\frac{2}{3}$ of the children in my class have pets at home. Eight have no pets. How many children are in the class?

8. My father gave me some small change that he had in his pocket. I spent $\frac{1}{10}$ of it on Monday, another $\frac{1}{10}$ on Tuesday and another $\frac{1}{10}$ on Wednesday. If I had 56 cents left on Thursday, how much did he give me?
