

Year 4 Term 1 Homework

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

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6 Year 4 Term 1 Week 6 Homework

6.1 Order of Operations ((), \times , \div , + and -)

Exercise 6.1.1 What is the place value of 8 in each of these decimal numbers?

1. $142.518 =$ _____

2. $205.826 =$ _____

3. $300.085 =$ _____

4. $480.053 =$ _____

5. $238.425 =$ _____

Exercise 6.1.2 The four operations

1. $11.4 + 1.2 =$ _____

2. $11.4 - 1.2 =$ _____

3. $11.4 \times 1.2 =$ _____

4. $11.4 \div 1.2 =$ _____

Exercise 6.1.3 Order of operations

1. $2 \times (12 - 4) + 21 =$ _____

2. $(33 + 11) \times (33 - 11) =$ _____

3. $(33 + 11) \div (33 - 11) =$ _____

4. $(48 - 12) \div 3 + 11.8 =$ _____

5. $12 - (42 - 12) \div 6 =$ _____

6. $14.2 - 4.6 + 5.7 \times 2 =$ _____

7. $3 \times 12 \div 4 + 14 =$ _____

8. $0.25 + \frac{1}{4} - \frac{1}{2} =$ _____

6.2 Fractions

6.2.1 Equivalent Fractions

$$\textcircled{1} \quad \frac{3}{4} = \frac{\quad}{28} = \frac{12}{\quad} = \frac{\quad}{12}$$

$$\textcircled{2} \quad \frac{2}{3} = \frac{\quad}{18} = \frac{8}{\quad} = \frac{\quad}{24}$$

$$\textcircled{3} \quad \frac{6}{10} = \frac{36}{\quad} = \frac{\quad}{70} = \frac{54}{\quad}$$

$$\textcircled{4} \quad \frac{1}{2} = \frac{8}{\quad} = \frac{\quad}{4} = \frac{5}{\quad}$$

$$\textcircled{5} \quad \frac{5}{7} = \frac{45}{\quad} = \frac{\quad}{28} = \frac{40}{\quad}$$

$$\textcircled{6} \quad \frac{8}{9} = \frac{72}{\quad} = \frac{\quad}{54} = \frac{56}{\quad}$$

$$\textcircled{7} \quad \frac{1}{10} = \frac{\quad}{70} = \frac{6}{\quad} = \frac{\quad}{30}$$

$$\textcircled{8} \quad \frac{7}{11} = \frac{\quad}{44} = \frac{56}{\quad} = \frac{\quad}{77}$$

$$\textcircled{9} \quad \frac{2}{5} = \frac{10}{\quad} = \frac{\quad}{10} = \frac{18}{\quad}$$

$$\textcircled{10} \quad \frac{1}{3} = \frac{\quad}{6} = \frac{9}{\quad} = \frac{\quad}{30}$$

$$\textcircled{11} \quad \frac{1}{7} = \frac{10}{\quad} = \frac{\quad}{28} = \frac{5}{\quad}$$

$$\textcircled{12} \quad \frac{1}{6} = \frac{9}{\quad} = \frac{\quad}{36} = \frac{2}{\quad}$$

$$\textcircled{13} \quad \frac{1}{4} = \frac{\quad}{16} = \frac{5}{\quad} = \frac{\quad}{40}$$

$$\textcircled{14} \quad \frac{7}{9} = \frac{\quad}{36} = \frac{63}{\quad} = \frac{\quad}{18}$$

$$\textcircled{15} \quad \frac{3}{6} = \frac{\quad}{42} = \frac{15}{\quad} = \frac{\quad}{18}$$

$$\textcircled{16} \quad \frac{6}{8} = \frac{36}{\quad} = \frac{\quad}{56} = \frac{24}{\quad}$$

$$\textcircled{17} \quad \frac{7}{8} = \frac{35}{\quad} = \frac{\quad}{56} = \frac{28}{\quad}$$

$$\textcircled{18} \quad \frac{2}{7} = \frac{8}{\quad} = \frac{\quad}{56} = \frac{18}{\quad}$$

$$\textcircled{19} \quad \frac{1}{8} = \frac{\quad}{40} = \frac{4}{\quad} = \frac{\quad}{64}$$

$$\textcircled{20} \quad \frac{2}{8} = \frac{\quad}{56} = \frac{18}{\quad} = \frac{\quad}{64}$$

Score: _____

6.2.2 Simplifying Fractions

$$\textcircled{1} \frac{124}{44} = \underline{\hspace{2cm}} \quad \textcircled{2} \frac{25}{5} = \underline{\hspace{2cm}} \quad \textcircled{3} \frac{12}{24} = \underline{\hspace{2cm}}$$

$$\textcircled{4} \frac{15}{20} = \underline{\hspace{2cm}} \quad \textcircled{5} \frac{20}{10} = \underline{\hspace{2cm}} \quad \textcircled{6} \frac{24}{9} = \underline{\hspace{2cm}}$$

$$\textcircled{7} \frac{32}{24} = \underline{\hspace{2cm}} \quad \textcircled{8} \frac{8}{16} = \underline{\hspace{2cm}} \quad \textcircled{9} \frac{77}{11} = \underline{\hspace{2cm}}$$

$$\textcircled{10} \frac{10}{5} = \underline{\hspace{2cm}} \quad \textcircled{11} \frac{8}{36} = \underline{\hspace{2cm}} \quad \textcircled{12} \frac{27}{54} = \underline{\hspace{2cm}}$$

$$\textcircled{13} \frac{30}{90} = \underline{\hspace{2cm}} \quad \textcircled{14} \frac{7}{49} = \underline{\hspace{2cm}} \quad \textcircled{15} \frac{64}{8} = \underline{\hspace{2cm}}$$

$$\textcircled{16} \frac{12}{15} = \underline{\hspace{2cm}} \quad \textcircled{17} \frac{24}{12} = \underline{\hspace{2cm}} \quad \textcircled{18} \frac{63}{49} = \underline{\hspace{2cm}}$$

$$\textcircled{19} \frac{48}{8} = \underline{\hspace{2cm}} \quad \textcircled{20} \frac{7}{28} = \underline{\hspace{2cm}} \quad \textcircled{21} \frac{5}{15} = \underline{\hspace{2cm}}$$

Score: _____

6.2.3 Comparing Fractions

① $\frac{1}{7} \square \frac{1}{2}$

② $\frac{6}{8} \square \frac{3}{4}$

③ $\frac{3}{9} \square \frac{10}{12}$

④ $\frac{4}{6} \square \frac{1}{4}$

⑤ $\frac{4}{7} \square \frac{4}{9}$

⑥ $\frac{8}{11} \square \frac{5}{12}$

⑦ $\frac{1}{5} \square \frac{5}{6}$

⑧ $\frac{2}{3} \square \frac{2}{7}$

⑨ $\frac{1}{2} \square \frac{2}{12}$

⑩ $\frac{5}{11} \square \frac{7}{11}$

⑪ $\frac{8}{12} \square \frac{4}{11}$

⑫ $\frac{6}{9} \square \frac{4}{10}$

⑬ $\frac{11}{12} \square \frac{1}{3}$

⑭ $\frac{1}{4} \square \frac{11}{12}$

⑮ $\frac{2}{5} \square \frac{2}{10}$

⑯ $\frac{3}{4} \square \frac{4}{6}$

⑰ $\frac{10}{12} \square \frac{3}{10}$

⑱ $\frac{3}{8} \square \frac{2}{4}$

⑲ $\frac{5}{8} \square \frac{5}{8}$

⑳ $\frac{7}{8} \square \frac{6}{7}$

㉑ $\frac{7}{12} \square \frac{3}{12}$

Score:

6.2.4 Adding Fractions

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

$$\textcircled{2} \quad \frac{4}{6} + \frac{4}{5} = \underline{\hspace{10cm}}$$

$$\textcircled{3} \quad \frac{5}{6} + \frac{2}{4} = \underline{\hspace{10cm}}$$

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

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

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

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

$$\textcircled{8} \quad \frac{2}{6} + \frac{5}{6} = \underline{\hspace{10cm}}$$

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

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

Score: _____

6.2.5 Subtracting Fractions

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

$$\textcircled{2} \quad \frac{2}{5} - \frac{2}{6} = \underline{\hspace{10cm}}$$

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

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

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

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

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

$$\textcircled{8} \quad \frac{3}{4} - \frac{2}{5} = \underline{\hspace{10cm}}$$

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

$$\textcircled{10} \quad \frac{4}{6} - \frac{4}{7} = \underline{\hspace{10cm}}$$

Score:

6.3 Problem Solving

Exercise 6.3.1 Quick questions

1. How many faces has a triangular prism? _____
2. Find 25% of 24. _____
3. How many minutes in $2\frac{1}{4}$ hours? _____
4. What is the size of the angle between NE and SW? _____
5. What is 1000 less than 1,000,000? _____
6. $23.456 > 32.654$. True or False? _____
7. How many quarters in two wholes? _____
8. What is the remainder when 35 is divided by 6? _____
9. Is the sum of the first 5 prime numbers a prime number? _____
10. Add all the even number less than 10. _____
11. What is the value of $5 \times 10^5 + 4 \times 10^4$? _____
12. Find the average of 35, 45, 55 and 65. _____
13. Write 36% as a fraction. _____
14. Write $\frac{5}{100}$ as a percentage. _____
15. Write $\frac{10}{20}$ as a percentage. _____
16. To the sum of 12 and 6, add their difference. _____
17. How much is $5\frac{1}{5}$ kg of meat at \$12 per kilogram? _____
18. How many tens in 4578? _____
19. How much is $\frac{1}{8}$ of \$96? _____
20. List the factors of 36. _____

6.4 Number Problems

Exercise 6.4.1 Construct an equation for each of these number problems and then solve them.

1. Three times a number and 4 is 10. What is the number?

2. The product of a number and 9 is 63. Find the number.

3. The difference of a number and seven is equal to 4. What is the number?

4. The quotient of a number and five increased by 4 is 8. What is the number?

5. Ten times a number decreased by 20 is 10. Find the number.

6. Nine is equal to a quotient of a number and 3. Find the number.

7. Five times a number decreased by 21 is 9. Find the number.

8. Three times a number increased by 5 is 26. Find the number.

9. Eight less than a number is 9. Find the number.

10. Eight times a number diminished by 4 is 20. Find the number.

11. The difference of a number and eight is equal 9. What is the number?

6.5 Quiz 6

Question 1.(5 points)

Evaluate $1.2 \times 5 + 1.2$.

- A. 6.2 B. 7.2 C. 8.2 D. 6.8

Question 2.(5 points)

How many lots of \$1000, are there in \$1,000,000?

- A. 100 B. 1000 C. 10,000 D. 100,000

Question 3.(5 points)

Find the value of $12 + 12 \div 2 \times 3 - 12$.

- A. 18 B. 2 C. 6 D. 12

Question 4.(5 points)

What time will it be 37 minutes after 4:47 p.m.?

- A. 5:24 p.m. B. 6:24 p.m. C. 5.14 p.m. D. 4:10 p.m.

Question 5.(5 points)

Which of these decimals has smallest value?

- A. 12.021 B. 12.102 C. 12.012 D. 12.201

Question 6.(5 points)

Which of the following simplifies to give the smallest number?

- A.
- 1.5×1.5
- B.
- $1.5 + 1.5$
- C.
- $1.5 - 1.5$
- D.
- $1.5 \div 1.5$

Question 7.(5 points)

Find the sum of 0.25, 1.25 and $\frac{1}{4}$.

- A. 1.5 B. 1.75 C. 2 D. 2.25

Question 8.(5 points)

What is the value of $4 + 4 \times (4 + 4)$?

- A. 48 B. 36 C. 24 D. 12

Question 9.(5 points)

The sum of 6 and the product of 4 and 8 is the same as:

- A.
- $(6 + 4) \times 8$
- B.
- $6 + 8 \times 4$
- C.
- $8 + 4 \times 6$
- D.
- $4 + 8 \times 6$

Question 10.(5 points)

Find the lowest common multiple of 4, 6 and 8.

- A. 12 B. 24 C. 36 D. 48

Question 11.(5 points)

Change 2 m 25 mm into metres:

- A. 2.25 m B. 2.025 m C. 2.205 m D. 2.5 m

Question 12. (5 points)

A water tank half full weighs 30 kg. The empty tank weighs 15 kg. How much water can it hold?

- A. 15 L B. 30 L C. 20 L D. 45 L

Question 13. (5 points)

There are 290 students in Year 4. If there are 26 more girls than boys, how many boys are there?

- A. 132 boys B. 119 boys C. 158 boys D. 138 boys

Question 14. (5 points)

Which number goes in the \square to make the number sentence true? $20 \times 60 = 30 \times \square$.

- A. 30 B. 40 C. 50 D. 60

Question 15. (5 points)

If your heart beats about 70 times each minute, which is the best estimate of how many times it beats in 12 hours?

- A. 500 times B. 5,000 times C. 50,000 times D. 500,000 times

Question 16. (5 points)

A store sells sugar in 600 g packs for \$2.50 each and 900 g packs for \$3.50 each. How much can you save by buying 1800 g of sugar in 900 g packs instead of in 600 g packs?

- A. \$1.50 B. \$0.50 C. \$1.25 D. \$2.50

Question 17. (5 points)

A rectangle measures 6 cm by 4 cm. If a square has the same distance around the edge as the rectangle, what would be the area of the square?

- A. 24 cm^2 B. 20 cm^2 C. 25 cm^2 D. 30 cm^2

Question 18. (5 points)

How many lines of symmetry does a square have?

- A. 2 B. 4 C. 6 D. 8

Question 19. (5 points)

How many lines of symmetry does a rectangle have?

- A. 2 B. 4 C. 6 D. 8

Question 20. (5 points)

How many lines of symmetry does a circle have?

- A. 4 B. 8 C. 100 D. infinity