

End of the Year Challenge Packet #2

Name: _____

Note: In this page, fractions are written with diagonal bars. For example $\frac{2}{3}$ is the fraction whose numerator is 2 and denominator is 3.
 $5\frac{1}{2}$ is a mixed number meaning $5 + \frac{1}{2}$.

1. $3\frac{1}{2} + 5\frac{1}{3} =$

- A. 8
- B. $8\frac{2}{5}$
- C. $8\frac{5}{6}$
- D. $\frac{2}{5}$

2. It takes Julia $\frac{1}{2}$ hour to wash, comb her hair and put on her clothes, and $\frac{1}{4}$ hour to have her breakfast. How much time does it take Julia to be ready for school?

- A. $\frac{3}{4}$ hour
- B. 1 hour
- C. $\frac{2}{4}$ hour
- D. $1\frac{1}{4}$ hours

3. Which two fractions are equivalent?

- A. $\frac{5}{2}$ and $\frac{2}{5}$
- B. $\frac{4}{3}$ and $\frac{8}{6}$
- C. $\frac{1}{4}$ and $\frac{2}{4}$
- D. $\frac{2}{3}$ and $\frac{1}{3}$

4. $5\frac{2}{3} - 3\frac{1}{2} =$

- A. 2
- B. $1\frac{2}{5}$
- C. $2\frac{7}{6}$
- D. $2\frac{1}{6}$

5. Billy ate $1\frac{1}{4}$ pizzas and John ate $1\frac{2}{3}$ pizzas. How much more pizza did John eat than Billy?

- A. $\frac{2}{3}$
- B. $\frac{5}{12}$
- C. $\frac{1}{4}$
- D. $\frac{7}{12}$

6. $\frac{5}{2} \div \frac{3}{4} =$

- A. $\frac{10}{3}$
- B. $\frac{10}{8}$
- C. $\frac{13}{4}$
- D. 1

7. $5 \div \frac{1}{7} =$

- A. $\frac{5}{7}$
- B. $\frac{6}{7}$
- C. $\frac{1}{35}$
- D. 35

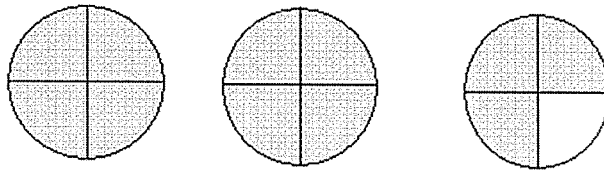
8. $\frac{2}{5} \times \frac{3}{7} =$

- A. $14/15$
- B. $6/35$
- C. $35/6$
- D. $15/14$

9. To have $a + 1 \frac{3}{4} = 2$, a must be equal to

- A. 1
- B. $3/4$
- C. $1/2$
- D. $1/4$

10. What fraction is the shaded part?



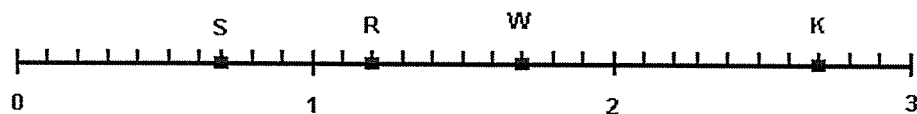
- A. 2
- B. $2 \frac{1}{4}$
- C. $2 \frac{3}{4}$
- D. $1 \frac{3}{4}$

11. True or false $2 \frac{1}{2} = 2 \times \frac{1}{2}$?

12. Tina works 15 hours a week (Monday to Friday). Last week she worked $3 \frac{1}{2}$ hours on Monday, 4 hours on Tuesday, $2 \frac{1}{6}$ hours on Wednesday and $1 \frac{1}{2}$ on Thursday. How many hours did she work on Friday? .

- A. 4
- B. $5/6$
- C. $3 \frac{5}{6}$
- D. $2 \frac{5}{6}$

13. Which point on the number line represents $1 \frac{7}{10}$?



- A. s
- B. R
- C. W
- D. K

14. Write $2 \frac{1}{3}$ as a fraction.

- A. $\frac{2}{3}$
- B. $\frac{7}{3}$
- C. $\frac{1}{3}$
- D. 6

15. Write $3\frac{1}{8}$ as a mixed number.

- A. 4
- B. $4\frac{7}{8}$
- C. $3\frac{1}{8}$
- D. $3\frac{7}{8}$

16. $3 \times \frac{1}{4} =$

- A. $3\frac{1}{4}$
- B. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$
- C. $\frac{1}{4}$
- D. 12

17. $3\frac{1}{4} =$

- A. $3 \times \frac{1}{4}$
- B. $\frac{3}{4}$
- C. $3 + \frac{1}{4}$
- D. $\frac{4}{3}$

18. True or false $\frac{2}{5} > \frac{3}{8}$?

19. Order from least to greatest the fractions $\frac{3}{5}$, $\frac{7}{6}$, $\frac{1}{3}$, $\frac{4}{9}$.

- A. $\frac{1}{3}$, $\frac{4}{9}$, $\frac{3}{5}$, $\frac{7}{6}$
- B. $\frac{4}{9}$, $\frac{1}{3}$, $\frac{3}{5}$, $\frac{7}{6}$
- C. $\frac{1}{3}$, $\frac{4}{9}$, $\frac{7}{6}$, $\frac{3}{5}$
- D. $\frac{1}{3}$, $\frac{3}{5}$, $\frac{4}{9}$, $\frac{7}{6}$

20. Write $\frac{2}{3}$ of 4 as a mixed number.

- A. $4\frac{2}{3}$
- B. $\frac{2}{3}$
- C. $2\frac{2}{3}$
- D. 2

21. How many minutes in $\frac{2}{3}$ of an hour?

- A. 40 minutes
- B. 60 minutes
- C. 20 minutes
- D. 100 minutes



Name _____

Clue In on Fractions

E 7-8
**NUMBER
SENSE**

Use the clues to find and write each fraction.

- 1. Clues:** My denominator is 12, which is 4 more than my numerator. Write me in simplest form.

- 2. Clues:** My numerator is 5, which is 5 less than my denominator. Write me in simplest form.

- 3. Clues:** I am equal to $\frac{12}{15}$. My denominator is 5.

- 4. Clues:** My numerator is 7. I am equal to $\frac{28}{32}$.

- 5. Clues:** My numerator is 8 less than my denominator. I am equal to $\frac{21}{45}$.

- 6. Clues:** My numerator is equal to my denominator. Write me in simplest form.

- 7. Clues:** My denominator is 5 more than my numerator. I am equal to $\frac{27}{72}$.

- 8. Clues:** My numerator is 10 less than my denominator. I am equal to $\frac{3}{5}$.

- 9. Clues:** My denominator is 1 more than my numerator. I am equal to $\frac{48}{56}$.

- 10. Clues:** My numerator is 4 less than my denominator. I am equal to $\frac{65}{85}$.

- 11. Clues:** In lowest terms, my numerator is 4 less than my denominator. Write 5 fractions I could be.

- 12. Clues:** My denominator is 5 more than my numerator in simplest form. Write 10 fractions I could be.

Decimal Detective



Write the standard numerals.

- | | |
|---|---|
| 1. nine thousand
_____ | 2. eight hundredths
_____ |
| 3. twenty-one thousandths
_____ | 4. thirty-five ten thousandths
_____ |
| 5. seven point five two nine
_____ | 6. four hundred and six thousandths
_____ |
| 7. five hundred point zero four six
_____ | 8. seven hundred
_____ |
| 9. three hundred ninety-six millionths
_____ | 10. nine hundred and forty-five hundredths
_____ |

Write a number that is between the two numbers.

- | | |
|----------------------|------------------------|
| 11. 8.6, 8.8 _____ | 12. 7.043, 7.045 _____ |
| 13. 5.3, 5.4 _____ | 14. 0.206, 0.208 _____ |
| 15. 7, 7.2 _____ | 16. 9.375, 9.385 _____ |
| 17. .155, .159 _____ | 18. .44, .45 _____ |

Complete the patterns.

- | | |
|---|--|
| 19. 0.2, 0.3, 0.4, 0.5, _____, _____, _____ | 20. 5.122, 5.123, 5.124, _____, _____, _____ |
| 21. 1.1, 2.2, 4.4, 8.8, _____, _____, _____ | 22. 0.021, 0.022, 0.023, _____, _____, _____ |
| 23. 0.33, 0.34, 0.35, 0.36, _____, _____, _____ | 24. 0.2, 0.3, 0.4, _____, _____, _____ |
| 25. 1, 1.75, 2.5, 3.25, _____, _____, _____ | 26. 0.003, 0.004, 0.005, _____, _____, _____ |
| 27. 1.2, 2.3, 3.4, 4.5, _____, _____, _____ | 28. .040, .045, .050, . _____, _____, _____ |

Name: _____

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Decimal Multiplication Worksheets

$$\begin{array}{r} 11.23 \\ \times 8.7 \\ \hline \end{array}$$

$$\begin{array}{r} 16.36 \\ \times 4.1 \\ \hline \end{array}$$

$$\begin{array}{r} 5.32 \\ \times 1.1 \\ \hline \end{array}$$

$$\begin{array}{r} 14.18 \\ \times 6.6 \\ \hline \end{array}$$

$$\begin{array}{r} 13.55 \\ \times 4.2 \\ \hline \end{array}$$

$$\begin{array}{r} 17.02 \\ \times 7.4 \\ \hline \end{array}$$

$$\begin{array}{r} 9.51 \\ \times 7.1 \\ \hline \end{array}$$

$$\begin{array}{r} 13.16 \\ \times 2.9 \\ \hline \end{array}$$

$$\begin{array}{r} 18.66 \\ \times 1.1 \\ \hline \end{array}$$

$$\begin{array}{r} 5.7 \\ \times 7.5 \\ \hline \end{array}$$

$$\begin{array}{r} 1.45 \\ \times 1.8 \\ \hline \end{array}$$

$$\begin{array}{r} 5.94 \\ \times 8.5 \\ \hline \end{array}$$

$$\begin{array}{r} 18.6 \\ \times 7.0 \\ \hline \end{array}$$

$$\begin{array}{r} 12.34 \\ \times 5.4 \\ \hline \end{array}$$

$$\begin{array}{r} 16.25 \\ \times 1.9 \\ \hline \end{array}$$

$$\begin{array}{r} 9.45 \\ \times 2.4 \\ \hline \end{array}$$

$$\begin{array}{r} 18.67 \\ \times 4.8 \\ \hline \end{array}$$

$$\begin{array}{r} 9.29 \\ \times 1.2 \\ \hline \end{array}$$

Area and Perimeter word problems.

Score:

Click the **Submit** button at the bottom to see the answers

The area of a parallelogram is 40 cm^2 . If the base of the parallelogram is 10 cm then what is the height of the parallelogram?

Answer: cm

The area of a parallelogram is 70 inch^2 . If the base of the parallelogram is 14 inches then what is the height of the parallelogram?

Answer: inches

The area of a parallelogram is 210 cm^2 . If the base of the parallelogram is 15 cm then what is the height of the parallelogram?

Answer: cm

The area of a square is 100 cm^2 . What is the perimeter of the square?

Answer: cm

The perimeter of a rectangle is 20 meters. If the width of the rectangle is 2 meters then what is the area of the rectangle?

Answer: meter²

The area of a rectangle is 182 foot^2 . If the length of the rectangle is 14 feet then what is the perimeter of the rectangle?

Answer: feet

The area of a rectangle is 14 meter^2 . If the width of the rectangle is 2 meters then what is the perimeter of the rectangle?

Answer: meters

The perimeter of a rectangle is 40 inches. If the width of the rectangle is 9 inches then what is the area of the rectangle?

Answer: inch²

The 2 parallel sides of a trapezoid measures 13 meters and 10 meters. If the height of the trapezoid is 2 meters. What is the area of the trapezoid?

Answer: meter²

The area of a square is 100 foot^2 . What is the perimeter of the square?

Answer: feet

Measuring Worksheet 1

Convert the measuring units as indicated.

1a. 7 qt 3 C = _____ C

1b. 6 T 1878 lb = _____ lb

2a. 12 oz = _____ C _____ oz

2b. 7 C 0 oz = _____ oz

3a. 9 mi 303 yd = _____ yd

3b. 243 oz = _____ lb _____ oz

4a. 16 ft 7 in = _____ in

4b. 6805 lb = _____ T _____ lb

5a. 6 mi 4111 ft = _____ ft

5b. 9 T 1381 lb = _____ lb

6a. 2 pt = _____ qt _____ pt

6b. 6 mi 4911 ft = _____ ft

7a. 52 qt = _____ gal _____ qt

7b. 3210 yd = _____ mi _____ yd

8a. 36 yd 0 ft = _____ ft

8b. 8 mi 742 yd = _____ yd

9a. 8 gal 3 qt = _____ qt

9b. 16 lb 14 oz = _____ oz

10a. 7057 lb = _____ T _____ lb

10b. 17620 lb = _____ T _____ lb

Answer Key

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Measuring Worksheet 1

Convert the measuring units as indicated.

1a. **8.933 L = _____ ml**

1b. **124 mm = _____ cm**

2a. **733 mm = _____ cm**

2b. **9991 ml = _____ L**

3a. **7577 g = _____ kg**

3b. **4394 g = _____ kg**

4a. **8.968 L = _____ ml**

4b. **703 mm = _____ cm**

5a. **2941 ml = _____ L**

5b. **123 mm = _____ cm**

6a. **25.5 cm = _____ mm**

6b. **587 g = _____ kg**

7a. **38 cm = _____ mm**

7b. **7.135 L = _____ ml**

8a. **5.91 m = _____ cm**

8b. **1.628 L = _____ ml**

9a. **7.479 L = _____ ml**

9b. **1.017 kg = _____ g**

10a. **589 g = _____ kg**

10b. **744 mm = _____ cm**

Answer Key

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