

Name: _____

Grade 8 Fraction Worksheet

Multiple Choice Identify the choice that best completes the statement or answers the question.

_____ 1. Add: $\frac{1}{11} + \frac{1}{22}$

a. $\frac{2}{33}$

b. $\frac{1}{33}$

c. $\frac{1}{11}$

d. $\frac{3}{22}$

_____ 2. Add: $\frac{2}{7} + \frac{2}{3}$

a. $\frac{2}{5}$

b. $\frac{4}{21}$

c. $\frac{20}{21}$

d. $1\frac{3}{7}$

_____ 3. Add: $\frac{4}{5} + \frac{8}{9}$

a. $1\frac{31}{45}$

b. $2\frac{2}{45}$

c. $\frac{4}{15}$

d. $\frac{6}{7}$

_____ 4. Sal paints a wall in his art classroom. He uses $\frac{3}{4}$ L of blue paint and $\frac{2}{3}$ L of white paint.

How much paint does he use?

a. $\frac{5}{7}$ L

b. $1\frac{5}{12}$ L

c. $\frac{5}{12}$ L

d. $1\frac{1}{2}$ L

_____ 5. You cut vegetables for a stew. You have $\frac{3}{4}$ cup carrots, $\frac{2}{3}$ cup onions, and $\frac{1}{2}$ cup peppers.

About how many cups of vegetables do you have in all?

a. $\frac{1}{2}$ cup

b. 3 cups

c. 1 cup

d. 2 cups

_____ 6. Subtract $\frac{1}{8}$ from $\frac{7}{12}$.

a. $\frac{2}{5}$

b. $\frac{11}{24}$

c. $\frac{3}{5}$

d. $\frac{1}{2}$

_____ 7. Write $3\frac{5}{6}$ as an improper fraction.

a. 15

b. $\frac{23}{6}$

c. $\frac{4}{3}$

d. $\frac{7}{3}$

_____ 8. Write $2\frac{4}{6}$ as an improper fraction in simplest form.

a. $\frac{8}{3}$

b. $\frac{13}{6}$

c. 12

d. $\frac{7}{6}$

_____ 9. Subtract: $4\frac{2}{5} - 1\frac{1}{3}$

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a. $3\frac{1}{2}$

b. $5\frac{11}{15}$

c. $3\frac{1}{15}$

d. $3\frac{1}{8}$

____ 10. A baby was born weighing $3\frac{1}{4}$ kg. After 2 months, it weighed $6\frac{1}{2}$ kg.

How much weight did the baby gain over the 2 months?

a. $2\frac{3}{4}$ kg

b. $9\frac{3}{4}$ kg

c. $3\frac{1}{3}$ kg

d. $3\frac{1}{4}$ kg

Short Answer (Show work for all questions. MAKE common denominators when needed)

11. Replace x with a number to make this equation true. (Hint - Reduce first)

$$\frac{6}{8} = \frac{15}{x}$$

12. Which 2 sums are correct?

A. $\frac{2}{3} + \frac{1}{4} = \frac{5}{12}$

B. $\frac{3}{5} + \frac{1}{6} = \frac{23}{30}$

C. $\frac{3}{7} + \frac{1}{2} = \frac{4}{9}$

D. $\frac{3}{10} + \frac{2}{5} = \frac{7}{10}$

13. Subtract: $\frac{7}{8} - \frac{2}{3}$

14. Subtract: $\frac{7}{6} - \frac{3}{4}$

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15. Jason needs to spend $1\frac{1}{8}$ h more at camp to complete his 6 h of camp counseling. How many hours has he completed so far?
16. Amanda drank $\frac{1}{2}$ bottle of water. Jeff drank $\frac{2}{3}$ bottle of water. Who drank more water? How much more?
17. Write $\frac{19}{7}$ as a mixed number.
18. Find the sum of $2\frac{5}{6}$ and $3\frac{1}{2}$.
19. Add: $\frac{19}{8} + \frac{5}{3}$
20. Josh and Mai Lin are painting a wall. Josh used $3\frac{2}{3}$ cans of paint and Mai Lin used $3\frac{1}{5}$ cans of paint. How much paint did they use?
21. Zania has $3\frac{3}{5}$ m of hose. She cuts off $1\frac{3}{4}$ m for use in watering plants. How much hose is left?
22. Replace x with a number to make this equation true.
$$\frac{3}{4} - \frac{2}{5} = \frac{7}{x}$$

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Multiplication

23. Model with fraction rectangles. Remember to state and draw the answer

a) $5 \times \frac{3}{7}$

b) $\frac{5}{6} \times 2$

24) Find the following using unit fractions

a) $\frac{6}{10}$ of 50

b) $\frac{4}{7}$ of 35