## HW Fractions and Decimals

1. A researcher records the depth of the water at a pier over time. The depth of the water is initially $3\ \frac{1}{3}$ feet. The depth increases by $2\ \frac{5}{12}$ feet at high tide and then decreases $2\ \frac{1}{6}$ feet. Find the final depth of the water.

   The final depth of the water is ☐ feet.

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2. You buy a 15-pound bag of bird seed. You fill a bird feeder with $5\ \frac{1}{2}$ pounds of seed. After 3 days, you add another $2\ \frac{1}{4}$ pounds of seed to the feeder. How many pounds of bird seed are left in the bag?

   ☐ pounds

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3. Find the LCM of 8 and 10.

   The LCM of 8 and 10 is ☐.

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4. Find the LCM of 5 and 7.

   The LCM of 5 and 7 is ☐.

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5. Find the difference. Write the answer in simplest form.

$$\frac{8}{9} - \frac{5}{9} = \square$$

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6. Find the sum. Write the answer in simplest form.

$$\frac{2}{5} + \frac{1}{6} = \square$$

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7. Find the difference. Write the answer in simplest form.

$$\frac{5}{7} - \frac{2}{9} = \square$$

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8. Find the sum. Write the answer in simplest form.

$$\frac{11}{8} + \frac{1}{6} = \square$$

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9. Find the difference. Write the answer in simplest form.

$$\frac{3}{2} - \frac{4}{15} = \square$$

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10. Find the difference. Write the answer in simplest form.

$$5\ \frac{5}{16} - 2\ \frac{3}{8} = \square$$

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11. Find the difference. Write the answer in simplest form.

$$6\ \frac{23}{48} - 3\ \frac{15}{16} = \square$$

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12. **PROBLEM SOLVING** A recipe calls for $3\frac{1}{4}$ cups of rice. You have $1\frac{1}{2}$ cups of white rice and $1\frac{3}{4}$ cups of brown rice. Evaluate the expression $1\frac{1}{2} + 1\frac{3}{4}$ to find whether you have enough rice for the recipe.

$1\frac{1}{2} + 1\frac{3}{4} = \square$ cups

Do you have enough rice for the recipe?

- ○ Yes
- ○ No

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13. Multiply. Write the answer in simplest form.

$$\frac{1}{7} \times \frac{2}{3} = \square$$

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14. Multiply. Write the answer in simplest form.

$$\frac{5}{8} \cdot \frac{1}{2} = \square$$

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15. Multiply. Write the answer in simplest form.

$$\frac{5}{6} \cdot \frac{2}{5} = \square$$

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16. Multiply. Write the answer in simplest form.

$$\frac{5}{12} \times 10 = \square$$

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17. Multiply. Write the answer in simplest form.

$$\left(\frac{3}{7}\right)^2 = \square$$

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18. Multiply. Write the answer in simplest form.

$$\left(\frac{5}{6}\right)^2 = \square$$

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19. Multiply. Write the answer in simplest form.

$$2\frac{1}{2} \cdot \frac{4}{5} = \square$$

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20. Evaluate the expressions. Write the answer in simplest form.

$$\left(\frac{3}{6} - \frac{1}{3}\right) \cdot \left(7\frac{3}{8}\right) = \square$$

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21. Evaluate the expressions. Write the answer in simplest form.

$$\left(\frac{4}{5}\right)^2 \times \left(\frac{3}{4} \times \frac{4}{3}\right) = \square$$

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22. Evaluate the expressions. Write the answer in simplest form.

$$\left(\frac{5}{6}\right)^2 \cdot \left(1\frac{1}{10}\right)^2 = \square$$

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23. Find the value of the expression.

$3 + 2 \times 4^2$

A 22

B 35

C 50

D 80

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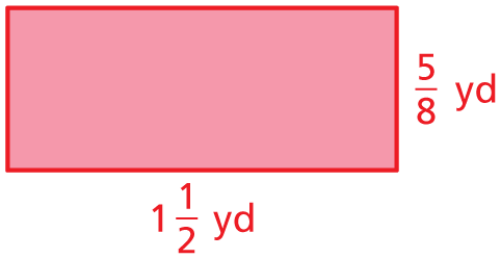
24. Find the area of the rectangle.




Area: ☐ square yard(s)

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25. Divide. Write the answer in simplest form.

$$\frac{5}{6} \div \frac{2}{7} = \square$$

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26. Divide. Write the answer in simplest form.

$$12 \div \frac{3}{4} = \square$$

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27. Divide. Write the answer in simplest form.

$$8 \div \frac{2}{5} = \square$$

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28. **NUMBER SENSE** Complete the statement.

$$\frac{5}{12} \times \square = 1$$

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29. Evaluate the expression. Write the answer in simplest form.

$$\frac{9}{16} \div \left(\frac{1}{4}\right)^2 \cdot \frac{3}{2} = \square$$

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30. Evaluate the expression. Write the answer in simplest form.

$$5^2 \cdot \frac{2}{5} \div \frac{6}{7} = \square$$

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31. Is 7 a prime factor of 286?

- ○ Yes
- ○ No

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32. Evaluate the expression. Write the answer in simplest form.

$$4\frac{2}{3} - 1\frac{1}{3} \div 2 = \square$$

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33. Evaluate the expression. Write the answer in simplest form.

$$4\frac{3}{8} \div \frac{3}{4} \cdot \frac{4}{7} = \square$$

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34. Evaluate the expression.

$23.557 - 17.601 + 5.216 =$ ☐

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35. Evaluate the expression.

$16.5263 + 12.404 - 11.73 =$ ☐

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36. Use a place value chart to find the sum.

$14.065 + 13.8542 =$ ☐

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37. Add.

$7.82 + 3.209 =$ ☐

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38. Subtract.

$56.217 - 35.8 =$ ☐

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