

Page 76 - Start correcting - I am NOT recording for hw points

Write each improper fraction as a mixed number.

1. $\frac{9}{4} = 2\frac{1}{4}$ 2. $\frac{8}{3} = 2\frac{2}{3}$ 3. $\frac{23}{6} = 3\frac{5}{6}$ 4. $\frac{11}{2} = 5\frac{1}{2}$
 5. $\frac{17}{5} = 3\frac{2}{5}$ 6. $\frac{15}{8} = 1\frac{7}{8}$ 7. $\frac{33}{10} = 3\frac{3}{10}$ 8. $\frac{29}{12} = 2\frac{5}{12}$

Multiply.

9. $6 \times 5 = 30$ 10. $8 \times 9 = 72$ 11. $10 \times 11 = 110$ 12. $7 \times 8 = 56$
 13. $9 \times 7 = 63$ 14. $8 \times 6 = 48$ 15. $9 \times 11 = 99$ 16. $11 \times 12 = 132$

Divide.

17. $35 \div 7 = 5$ 18. $56 \div 8 = 7$ 19. $28 \div 7 = 4$ 20. $48 \div 8 = 6$
 21. $36 \div 4 = 9$ 22. $45 \div 9 = 5$ 23. $72 \div 8 = 9$ 24. $40 \div 5 = 8$

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B $\frac{6}{7} \times \frac{2}{3} = \frac{12}{21} \div \frac{3}{3} = \frac{4}{7}$

6 in the numerator and 3 in the denominator have a common factor other than one. Divide by the GCF 3.

$\frac{6}{7} \times \frac{2}{3} = \frac{6 \times 2}{7 \times 3}$

Write the problem as a single fraction.

$= \frac{\overset{2}{\cancel{6}} \times 2}{7 \times \underset{1}{\cancel{3}}}$

Simplify before multiplying using the GCF. "Cross Cancel"

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

Multiply numerators. Multiply denominators.

$= \frac{4}{7}$

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Multiplying Fractions

To multiply two fractions you first multiply the numerators and then multiply the denominators.

$$\frac{\text{numerator} \times \text{numerator}}{\text{denominator} \times \text{denominator}} = \frac{\text{numerator}}{\text{denominator}}$$

The resulting product may need to be written in simplest form. To write a fraction in simplest form, you can divide both the numerator and the denominator by their greatest common factor.

YOUR TURN

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Multiply. Write each product in simplest form.

1. $\frac{1}{2} \times \frac{1}{5} = \frac{1}{10}$

2. $\frac{1}{4} \times \frac{7}{9} = \frac{7}{36}$

3. $\frac{1}{7} \times \frac{2}{8} = \frac{2}{56} = \frac{1}{28}$

4. $\frac{4}{5} \times \frac{2}{7} = \frac{8}{35}$

5. $\frac{1}{10} \times \frac{4}{3} = \frac{4}{30} = \frac{2}{15}$

6. $\frac{1}{7} \times \frac{1}{8} = \frac{1}{56}$

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7. **Analyze Relationships** Is the product of a fraction less than 1 and a whole number, greater than or less than the whole number? Explain.

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Less than; a fraction of a whole, if the fraction is less than 1, is always less than the whole.

$$\frac{1}{2} \times \frac{1}{6} = \frac{1}{12}$$

YOUR TURN

Multiply. Write each product in simplest form.

8. $\frac{5}{8} \times \frac{3}{4} = \frac{15}{32}$

9. $\frac{3}{8} \times \frac{20}{4} = \frac{15}{2} = 7\frac{1}{2}$

10. $\frac{1}{3} \times 8 = \frac{8}{3} = 2\frac{2}{3}$

11. $\frac{1}{2} \times \frac{7}{4} = \frac{7}{8}$

12 and 13 are on the next slide

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12. $3\frac{7}{10} \times 7$

$\frac{37}{10} \times \frac{7}{1} = \frac{259}{10} = 25\frac{9}{10}$

$\begin{array}{r} 37 \\ \times 7 \\ \hline 259 \end{array}$

$25\frac{9}{10}$

Shape	X
Operate	
Simplify	
S	-NO mixed #s -Improper or proper fractions
O	-Cross Cancel if possible -Multiply across
S	-Reduce -Write as mixed #

13. $2\frac{3}{10} \times 10$

$\frac{23}{10} \times \frac{10}{1} = 23$

$\begin{array}{r} 23 \\ \times 10 \\ \hline 230 \end{array}$

~~$\begin{array}{r} 2\frac{3}{10} \times 10 \\ \hline 23 \end{array}$~~

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Find each amount. (Example 2) pg. 82

7. $\frac{1}{4}$ of 12 bottles of water = 3 bottles

$\frac{1}{4} \times 12 = 3$

12
3
3
3
3

8. $\frac{2}{3}$ of 24 bananas = 16 bananas

$\frac{2}{3} \times 24 = 16$

24
8
8
8

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9. $\frac{3}{5} \times \frac{40}{7}$ restaurant bill = \$ 24

10. $\frac{5}{6} \times \frac{18}{1}$ pencils = 15 pencils

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Homework

Textbook page 82 (1-6) and page 83 (18-21)

If you have enough room, you may show your work directly on the pages.

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