

Name: LOZDate: 11-19-20

Thursday

Wow! 😊

22
22

Lesson 4.4 Multiplying Mixed Numbers and Whole Numbers

Multiply. Express each product in simplest form.

1.

$$3\frac{4}{5} \times 2 = 7\frac{3}{5}$$

$$\downarrow \downarrow$$

$$\frac{19}{5} \times \frac{2}{1} = \frac{38}{5}$$

$$38 \div 5 = 7\frac{3}{5}$$

2.

$$2\frac{3}{4} \times 8 = 22$$

$$\downarrow \downarrow$$

$$\frac{11}{4} \times \frac{8}{1} = \frac{88}{4}$$

$$88 \div 4 = 22$$

3.

$$2\frac{1}{6} \times 4 = 8\frac{2}{3}$$

$$\downarrow \downarrow$$

$$\frac{13}{6} \times \frac{4}{1} = \frac{52}{6}$$

$$52 \div 6 = 8\frac{4}{6} = 8\frac{2}{3}$$

4.

$$21 \times 1\frac{6}{7} = 39$$

$$\downarrow \downarrow$$

$$\frac{211}{1} \times \frac{13}{7} = \frac{273}{7}$$

$$273 \div 7 = 39$$

5.

$$40 \times 2\frac{5}{8} = 105$$

$$\downarrow \downarrow$$

$$\frac{40 \times 21}{1 \times 8} = \frac{840}{8}$$

$$840 \div 8 = 105$$

6.

$$6 \times 3\frac{4}{9} = 20\frac{2}{3}$$

$$\downarrow \downarrow$$

$$\frac{6 \times 31}{1 \times 9} = \frac{186}{9}$$

$$186 \div 9 = 20\frac{6}{9} = 20\frac{2}{3}$$

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7. $3\frac{2}{3} \times 17 = 62\frac{1}{3}$

↓ ↓

$$\frac{11}{3} \times \frac{17}{1} = \frac{187}{3}$$

$187 \div 3 = 62\frac{1}{3}$

8. $2\frac{3}{7} \times 16 = 38\frac{6}{7}$

↓ ↓

$$\frac{17}{7} \times \frac{16}{1} = \frac{272}{7}$$

$272 \div 7 = 38\frac{6}{7}$

9. $2\frac{5}{9} \times 12 = 30\frac{2}{3}$

↓ ↓

$$\frac{23}{9} \times \frac{12}{1} = \frac{276}{9}$$

$276 \div 9 = 30\frac{6}{9}$

10. $18 \times 1\frac{7}{8} = 33\frac{3}{4}$

↓ ↓

$$\frac{18}{1} \times \frac{15}{8} = \frac{270}{8}$$

$270 \div 8 = 33\frac{6}{8} = 33\frac{3}{4}$

11. $14 \times 3\frac{3}{10} = 46\frac{1}{5}$

↓ ↓

$$\frac{14}{1} \times \frac{33}{10} = \frac{462}{10}$$

$462 \div 10 = 46\frac{2}{10} = 46\frac{1}{5}$

12. $9 \times 2\frac{5}{6} = 19\frac{5}{2}$

↓ ↓

$$\frac{9}{1} \times \frac{17}{6} = \frac{153}{6}$$

$153 \div 6 = 25\frac{3}{6} = 25\frac{1}{2}$

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Complete.

13. There are 15 muffins.

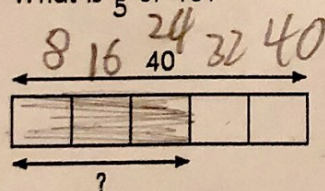


Circle the 15 muffins into 3 equal groups.

$$\frac{2}{3} \text{ of } 15 = \frac{30}{3}$$

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

14. What is $\frac{3}{5}$ of 40?



$$5 \text{ units} = 40$$

$$1 \text{ unit} = 8$$

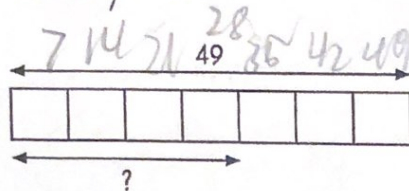
$$3 \text{ units} = 24$$

$$\text{So, } \frac{3}{5} \text{ of } 40 = 24$$

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15. What is $\frac{4}{7} \times 49$?



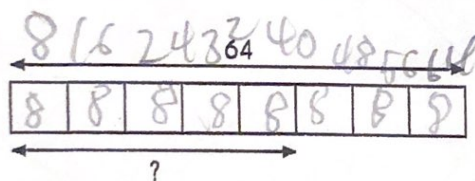
7 units = 49

1 unit = 7

4 units = 28

$\frac{4}{7} \times 49 = \underline{28}$

16. What is $\frac{5}{8}$ of 64? = 320



8 units = 64

1 unit = 8

5 units = 40

$\frac{5}{8} \times 64 = 40$

$\frac{320}{8} = 40$
 $320 = 160$
 $80 = 40 = 10$
 10×5

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Solve.

17.

$$\frac{5}{6} \times 60 = 50$$

↓ ↓

$$\frac{5}{6} \times \frac{60}{1} = \frac{300}{6} = 50$$

18.

$$\frac{3}{7} \times 56 = 24$$

↓ ↓

$$\frac{3}{7} \times \frac{56}{1} = \frac{168}{7} = 24$$

19.

$$\frac{7}{8} \times 48 = 42$$

↓ ↓

$$\frac{7}{8} \times \frac{48}{1} = \frac{336}{8} = 42$$

20.

$$\frac{2}{9} \times 72 = 16$$

$$\frac{2}{9} \times \frac{72}{1} = \frac{144}{9} = 16$$

21.

$$\frac{3}{10} \times 100 = 30$$

$$\frac{3}{10} \times \frac{100}{1} = \frac{300}{10} = 30$$

22.

$$\frac{7}{12} \times 96 = 56$$

$$\frac{7}{12} \times \frac{96}{1} = \frac{672}{12} = 56$$

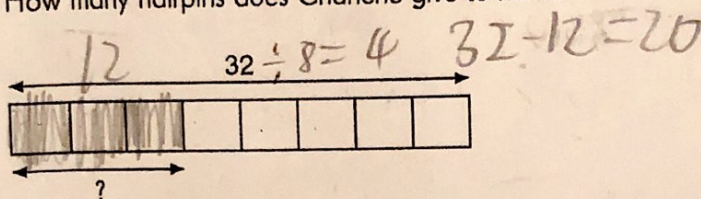
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23. Charlene has 32 hairpins. She gives $\frac{3}{8}$ of the hairpins to her sister. How many hairpins does Charlene give to her sister?



Charlene gave 12 hairpins
to her sister.