Lesson 45 • Dividing by a Decimal Number

Power Up

– ***Facts***

– ***Mental Math***

– ***Problem Solving***

New Concepts

– ***Examples***

– ***Practice Set***

Written Practice

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Facts Find the number that completes each proportion.

$\frac{3}{4} = \frac{a}{12}$ $a = 9$	$\frac{3}{4} = \frac{12}{b}$ $b = 16$	$\frac{c}{5} = \frac{12}{20}$ $c = 3$	$\frac{2}{d} = \frac{12}{24}$ $d = 4$	$\frac{8}{12} = \frac{4}{e}$ $e = 6$
$\frac{f}{10} = \frac{10}{5}$ $f = 20$	$\frac{5}{g} = \frac{25}{100}$ $g = 20$	$\frac{10}{100} = \frac{5}{h}$ $h = 50$	$\frac{8}{4} = \frac{j}{16}$ $j = 32$	$\frac{24}{k} = \frac{8}{6}$ $k = 18$
$\frac{9}{12} = \frac{36}{m}$ $m = 48$	$\frac{50}{100} = \frac{w}{30}$ $w = 15$	$\frac{3}{9} = \frac{5}{p}$ $p = 15$	$\frac{q}{60} = \frac{15}{20}$ $q = 45$	$\frac{2}{5} = \frac{r}{100}$ $r = 40$

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mental math

a. **Calculation:** $7 \times \$1.50$

b. **Decimals/Exponents:** 1.25×10^2

c. **Equivalent Fractions:** $\frac{4}{6} = \frac{10}{W}$

d. **Power/Roots:** $5^2 \cdot \sqrt{16}$

e. **Estimation:** $4\frac{1}{8} \times 2\frac{6}{7}$

f. **Fractional Parts:** $\frac{2}{3}$ of 75

g. **Statistics:** Find the range of the set of numbers: 123, 321, 232, 623.

h. **Calculation:** Find the sum, difference, product, and quotient of $\frac{3}{4}$ and $\frac{2}{3}$.

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Written Practice

1. $\frac{3}{5}$
2. \$7.40
3. four and one hundredth
4. a. 4 votes
   b. $\frac{1}{5}$
5. a. $\frac{3}{7}$
   b. $\frac{4}{3}$
6. a. Distributive Property
   b. Inverse Property of Multiplication
7. 2500
8. a. 18 cm
   b. 180 cm^2
9. a. $62\frac{1}{2}$
   b. 0.09
   c. 0.075
10. a. 23.54545
    b. 0.91667

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Written Practice *continued*

11. 2000 grams

12. $0.33

13. a. 0.567

b. $0.5\overline{6}$

14. $\frac{1}{26}$, 0.04

15. 2.5 cm

16. a. 6 cm

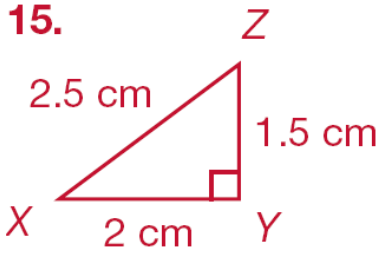
b. 1.5 cm²

17. 12

18. 11

19. 0.97

15.



20. 2.62

21. 0.0225

22. 2.62

23. 2.828

24. 0.8

25. $1\frac{7}{8}$

26. $3\frac{5}{12}$

27. 10

28. 6

29. 33 pencils

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Written Practice *continued*

30. a. See student work.

b. The sum of the angle measures of a triangle is 180°.

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