Lesson 78 • Products of Square Roots

Power Up

- ***Facts***
- ***Mental Math***
- ***Problem Solving***

New Concepts

- ***Examples***
- ***Practice Set***

Written Practice

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Facts Simplify and express in scientific notation.

$(2 \times 10^6)(3 \times 10^4)$ 6×10^{10}	$(4 \times 10^5)(6 \times 10^4)$ 2.4×10^{10}	$(2.5 \times 10^3)(3 \times 10^{-6})$ 7.5×10^{-3}
$(4 \times 10^{-3})(2 \times 10^{-4})$ 8×10^{-7}	$(5 \times 10^{-5})(3 \times 10^{-4})$ 1.5×10^{-8}	$(2.4 \times 10^{-4})(2 \times 10^6)$ 4.8×10^2

$\frac{6 \times 10^8}{3 \times 10^5}$ 2×10^3	$\frac{5 \times 10^4}{2 \times 10^8}$ 2.5×10^{-4}	$\frac{4.2 \times 10^{-3}}{2 \times 10^3}$ 2.1×10^{-6}	$\frac{2.4 \times 10^5}{4 \times 10^{-3}}$ 6×10^7

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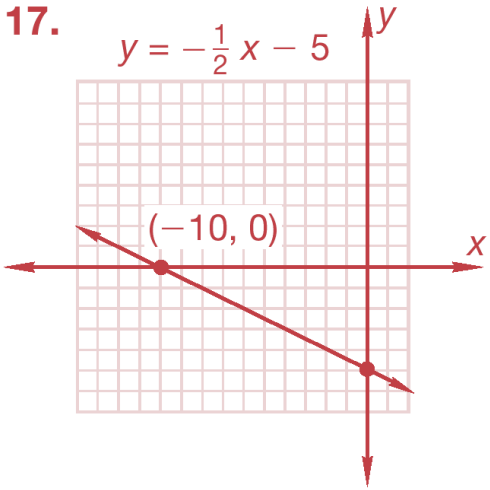
Written Practice

1. 125%
2. $780,000
3. 480 roses
4. 90
5. $4\sqrt{3}$
6. $3\sqrt{7}$
7. $6\sqrt{2}$
8. $2m^2b^4$
9. $m = 14$
10. $x = 20$
11. $x = 2$
12. m= 9
13. trapezoid, 28 cm^2
14. parallelogram, 40 cm^2
15. a. 7 and 8
    b. 7 and 8
    c. 6 and 7
16. $\frac{\$1}{hr} \cdot \frac{100¢}{\$1} \cdot \frac{1\ hr}{0\ min}$
17. yes
18. See student work. Height of tree is about 25 feet.
19. 1000 cm^3

17.



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Written Practice *continued*

20. 720π in.^{3}

21. A

22. $\frac{1}{6}, 16\frac{2}{3}\%, 0.17$

23. $x > -1$

24. $x \geq 2$

25. a. D

b. B

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