Lesson 80 • Adding and Subtracting Mixed Measures • Polynomials

Power Up

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

New Concepts

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

Written Practice

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

Written Practice

1. a. $72
   b. $50.40
2. 75 acres
3. $\frac{2}{9}$
4. No. The side lengths of all right triangles satisfy the Pythagorean Theorem: $5^2 + 7^2$ is 74, but $9^2 = 81$.
5. $r = \sqrt{\frac{A}{\pi}}$
6. 6 ft^3
7. $x = -6$
8. $x = 70$
9. $x = \frac{5}{4}$
10. $x = -4$
11. a. 4 yd 1 ft 5 in.
    b. 38 min
12. a. binomial
    b. $4x + 1$
13. $10\sqrt{10}$
14. 20
15. $6\sqrt{2}$
16. $\frac{4y^7}{x}$

Written Practice *continued*

17. 20 miles^2

18. 82 ft^2

19. $x \le 1$

20. $\frac{\$27}{\text{yd}^2} \cdot \frac{1\ \text{yd}}{3\ \text{ft}} \cdot \frac{1\ \text{yd}}{3\ \text{ft}} = \frac{\$3}{\text{ft}^2}$

21. yes

22. $a = 5$, $b = 8$, $c = 6$

23. 240 in.^{3}

24. a. $0.\overline{2}$

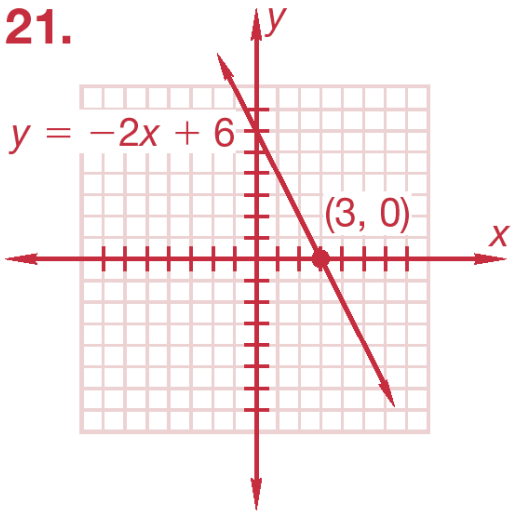
b. $22\frac{2}{9}\%$

25. a. 1000

b. 150

c. 550

21.



23. One example: