

Find the sum or product. Write each answer in standard form.

21. $(7x^3 - 2x^2) + (-2x^3 + 8x)$

22. $-3x^4(4x^5y^2 - 6xy^3 + 9)$

23. $(3x + 5)(5x - 2)$

Use the given information to write an equation of the line in slope-intercept form.

24. slope $m = \frac{9}{10}$ with
~~(-3, 2)~~ $(0, 2)$

25. contains points $(-8, 3)$
and ~~(-5, 5)~~ $(0, 5)$

26. Perpendicular to the line
 $-6x + 2y = 15$, and passes
through point $(0, 8)$.

Solve for x .

27. $\frac{3x + 2}{8} = \frac{9}{5}$

28. $\frac{\$8.16}{3 \text{ lb}} = \frac{x \text{ dollars}}{1 \text{ oz}}$

29. scale: 10 cm : x mi
scale measure: 4.5 cm
actual measure: 180 mi

Find the missing value.

30. 124% of 42 is
what number?

31. 76 is what percent of
15,200?

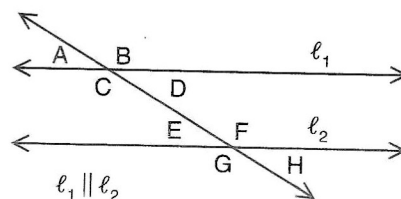
32. 14 is 35% of
what number?

33. Price: \$345.60
Tax Rate: 7.5%
Sales Tax: ?

34. Original: 64.45
New: 77.34
Percent change: ?

35. Simple interest: \$163.80
Rate: 4.2%
Time: 18 months
Principal: ?

Use the diagram at the right to answer questions 36–38.



36. Which pairs of angles are
corresponding angles?

37. Which pairs of angles are
alternate interior angles?

38. If $m\angle A = 43^\circ$, what
is $m\angle C$?