**On Tuesday, *d* dollars’ worth of merchandise was sold. On Wednesday, the amount   
of merchandise sold was $150 less than twice the amount of merchandise sold on Tuesday.**

**Which expression represents the amount of merchandise sold on Wednesday?**

2*d* −150

2(150 − *d*)

2(*d* −150)

150 −2*d*

**Simplify:**80÷4−2(2+1)

2

31

10

162

**Jan's gas tank is nearly empty, at 1/12 full. She doesn't have   
enough cash to fill the tank, but she adds enough gas to reach 2/3 full.   
  
How much gas did she add, as a fraction of the tank?**

**1/3**

**2/9**

**7/12**

**5/12**



**In a scale drawing, a 42-foot tree is drawn 6 inches high. The flag pole   
next to it is drawn 7-inches high. How tall is the actual flag pole?**

48 ft

45 ft

49 ft

43 ft

**Lynh manages a small company with 12 employees. He offers profit sharing where   
5% of profits at end of year is distributed evenly to the employees. Each   
employee earned $2,300 in profit sharing in 2013. What was the total profit?**

$552,000

$216,000

$55,200

$138,000

**Simplify the expression:**4x(2y)+3y(2−x)

5xy+6y

8xy+6y

11xy+6y

8xy+6y−3x

**The area of a trapezoid is 864 cm2. It has a height of 24 cm, and the length   
of one of its bases is 30 cm. What is the length of the other base?**

114 cm

45 cm

42 cm

38 cm

**Solve the inequality for *t*:**  0.1−2t≥0.7

t≥−0.3

t≥−0.4

t≤−0.4

t≤−0.3

**A line passes through the points**(2,−4) and (6,10).

**What is the equation of the line?**

y=7/2x−11

y=−7/2x+11/2

y=7/2x+11

y=−7x−11/2

**What are the solutions of the equation**3x2+6x−24=0**?**

−2,4

−4,6

4,−6

2,−4

**Brian works in a lab, and fills an empty cylindrical flask   
with 200 cubic centimeters of liquid. The flask has a   
radius of 3 cm and a height 12 cm. What percent   
of the volume of the flask is not filled with liquid?**

**(Use**π=3.14π=3.14**)**

**There are 10 students in a math class. Nine of the students had the following final exam scores:**68%     47%     81%     96%     91%     84%     61%     66%     76%68%     47%     81%     96%     91%     84%     61%     66%     76%**What would the tenth student need to earn on the final exam so that the average final exam score for all 10 students is 75%?**

86%

80%

76%

83%

**A candle is in the shape of a right pyramid with a square base that has an  
area of 144 square inches. The slant height of the candle is 10 inches.   
What is the total surface area of the candle?**

384 in2

480 in2

864 in2

336 in2

**Multiply:**(3x+4)(2x−5)

6x2−20

6x2−7x−20

6x2+22x−20

6x2−7x+20