

Analyzing Units

Write what UNITS the answer should have.

Remember, adding and subtracting preserves units ($10 \text{ cookies} - 7 \text{ cookies} = 3 \text{ cookies}$) but multiplying or dividing will change the units ($2 \text{ feet} \times 3 \text{ feet} = 6 \text{ sq ft}$).

1. Anna needs to buy 40 pounds of potatoes for an upcoming potluck. A 2 pound bag of potatoes costs \$1.97, a 5 pound bag of potatoes costs \$2.37, and a 10 pound bag of potatoes costs \$3.97. How much would it cost for Anna to buy her potatoes using each size of bag?

2. Jeremy filled his car's empty tank with 15 gallons of gas. Then, he drove 337 miles until his tank was empty again. About how far can his car travel for each gallon of gas he puts into it?

3. Katie needs to build a fence for her dog, and she wants it to have at least 50 sq feet of space. One fence kit will build a square fence that is 6 feet long on each side. Another kit will build a square fence that is 8 feet long on each side. How much space will each kit enclose?

4. 14 meters x 20 meters

9. 67 hours + 42 hours

5. 40 bricks + 22 bricks

10. 9 inches x 11 inches

6. $\frac{200 \text{ dollars}}{12 \text{ hours}}$

11. $\frac{70 \text{ miles}}{1 \text{ hour}}$

7. 13 days – 2 days

12. 456 dollars – 123 dollars

8. $\frac{234 \text{ species}}{12 \text{ years}}$

13. $\frac{22 \text{ songs}}{2 \text{ days}}$