

Unit Review

LESSON

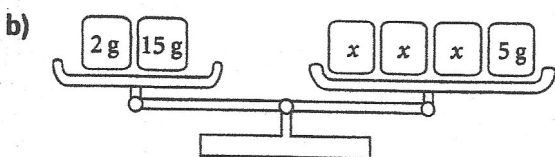
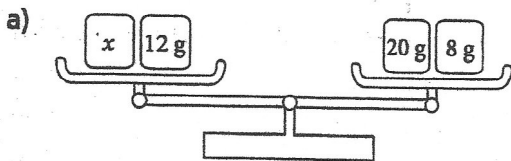
- 6.1 1. Write an equation you can use to solve each problem.
Solve each equation by inspection or systematic trial.

a) Gabrielle wants to buy a new snowboard that costs \$300.
She has \$180 in her bank account.
How much more must Gabrielle save so she can buy the snowboard?

b) Freddy bought a new music player for \$250.
He then had \$380 left in his bank account.
How much was in Freddy's account before he bought the player?

c) Emily helps clean a local yoga studio.
She earns \$8 per hour.
Last month Emily got a \$10 bonus.
Her total earnings were \$170.
How many hours did Emily work?

- 6.2 2. Write an equation that is represented by each balance scales.
Solve the equation. Sketch the steps.



LESSON

- 6.3 3. Solve each equation using algebra tiles. Sketch the tiles you used. Verify each solution.

a) $x + 8 = 5$

b) $6 = x - 3$

c) $-3 = x + 7$

d) $x - 2 = -5$

4. Overnight, the temperature dropped by 15°C to -10°C .

a) Write an equation you can solve to find the temperature before it dropped.

b) Use tiles to solve the equation.

- 6.4 5. Solve each equation using algebra. Verify each solution.

a) $4n = 64$

b) $2p + 15 = 21$

c) $5r - 4 = 26$

d) $60 = q + 15$

6. Dylan starts with \$40. He saves \$12 a week.

After how many weeks will Dylan have each amount?

a) \$100

b) \$136

- 6.5 7. Write an equation for each problem. Solve the equation. Verify each answer.

a) A number increased by 7 is 22. What is the number?

b) William arranges a number of stamps into 5 groups.

There are 12 stamps in each group. How many stamps did William start with?

c) Six less than a number is 25. What is the number?

d) A rectangle has a perimeter of 38 cm. The base is 7 cm. Sketch and label the rectangle. What is its height?