



11 Megan made 3 posters in 15 minutes. At that rate, how long will it take Megan to make 24 posters?

12 What number comes next in the pattern below?

$$\frac{1}{3}, \frac{2}{3}, \frac{4}{3}, \frac{8}{3}, \frac{16}{3}, ?$$

13 The lengths of two sides of a triangle are 20 cm and 32 cm.

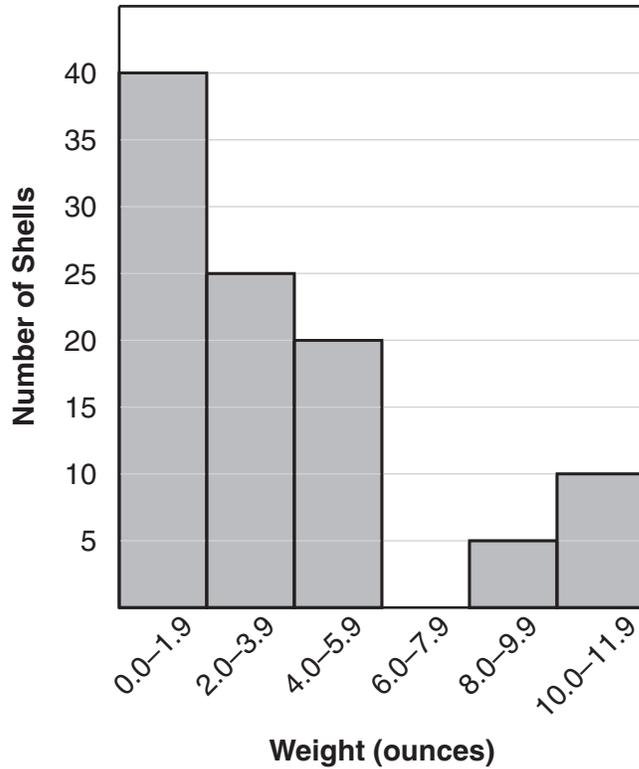
- Explain why the third side of the triangle can or cannot have a length of 10 cm.
- Explain why the third side of the triangle can or cannot have a length of 48 cm.

14 Ken wants to earn \$37.50 to buy a computer game. He uses the equation below to calculate the number of hours, h , he needs to babysit to earn the \$37.50.

$$5h + 10 = 37.50$$

How many hours does Ken need to babysit to earn enough money to buy the computer game?

- 15 Terry weighed each of the seashells in his collection to the nearest tenth of an ounce. This histogram displays his results.



- a. How many seashells are in Terry's collection altogether?
- b. Explain whether or not the median weight of Terry's seashells is between 4.0 and 5.9 ounces.

Terry adds another seashell to his collection. The new seashell weighs 27.8 ounces.

- c. Explain whether or not the **mode** of the weights will change when Terry includes 27.8 ounces.
- d. Explain whether or not the **mean** of the weights will change when Terry includes 27.8 ounces.