

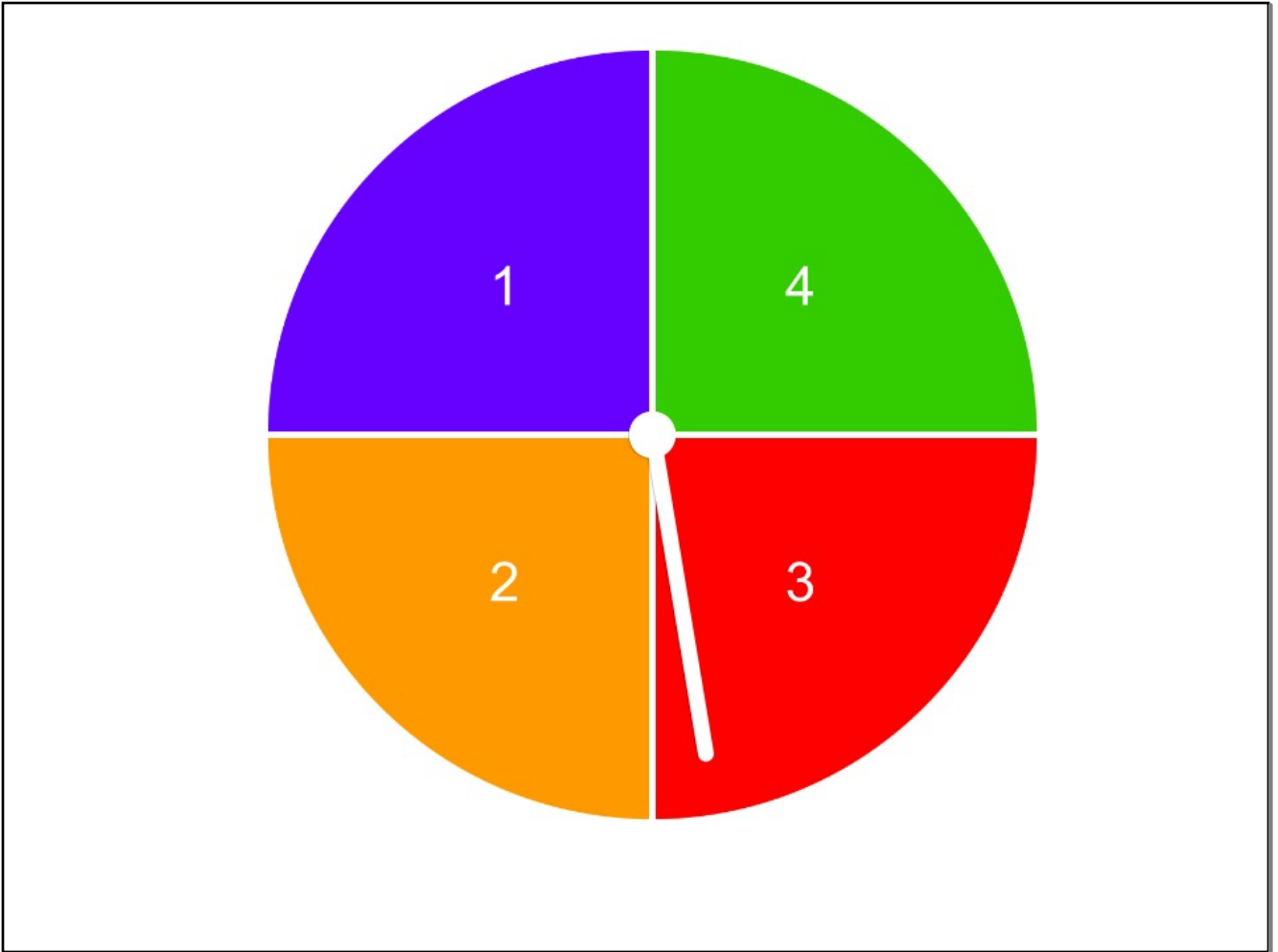
**Warm up:**

The grocery store is selling 6 lb of cherries for \$34. What is the unit price? Round to the nearest cent if necessary.

$$\begin{array}{l} \$ 34 \\ \hline 6 \text{ lb} \end{array} = 5.\underline{666666} \overline{6}$$

$\uparrow$

\$ 5.67 / lb



12 plates cost \$45. 7 plates cost \$25. Is the cost proportional to the number of plates purchased? **no**

$$\frac{12}{45} \stackrel{?}{=} \frac{7}{25}$$

$$45 \cdot 7 \stackrel{?}{=} 12 \cdot 25$$
$$315 \neq 300$$

**no**

Solve.

$$\frac{4}{x} = \frac{18}{45}$$

$$18x = 4 \cdot 45$$

$$\frac{18x}{18} = \frac{180}{18}$$

$$x = 10$$

Are the following ratios proportional?

$$\frac{9}{14} \stackrel{?}{=} \frac{16}{40}$$

$$9 \cdot 40 \stackrel{?}{=} 14 \cdot 16$$
$$360 \neq 224$$

no

13 lbs of cherries cost \$74.75. What is the unit price?

$$\frac{74.75}{13} = \$5.75/16$$

Stan ran 800m in 170s. What was his average speed for the race?

Round to the nearest hundredth if necessary.

$$\frac{800}{170} = 4.705882353$$

$$4.71 \text{ m/s}$$

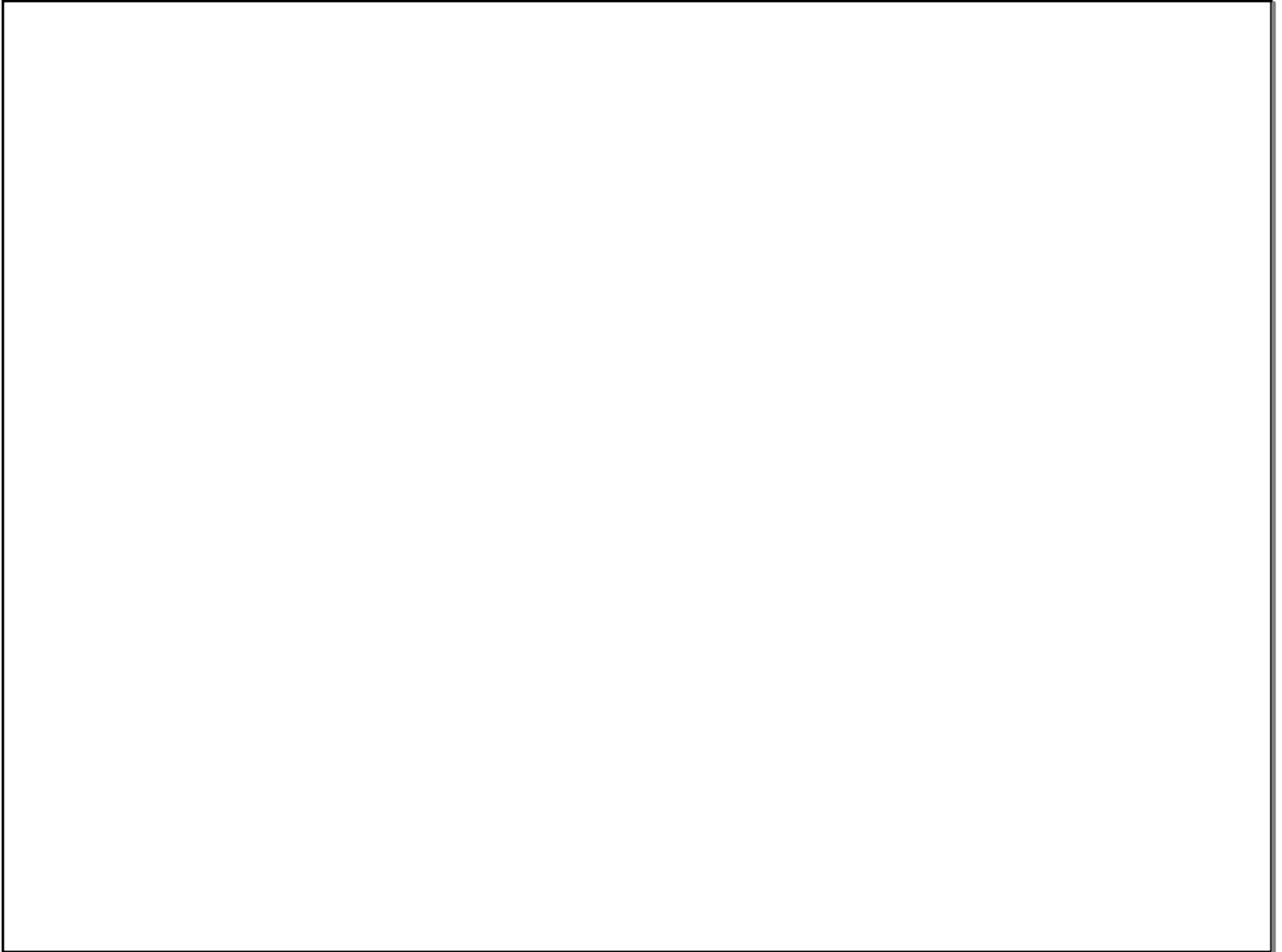
Store A is selling packages of 8 pudding cups for \$13. Store B is selling packages of 12 pudding cups for \$19. Which store has the better deal?

$$\frac{13}{8} = 1.625 \quad \$1.63/\text{cup}$$

$$\frac{19}{12} = 1.58\overline{333} \quad \$1.58/\text{cup}$$

(B)





Paul ate 32 hot dogs in 12 minutes. What was his unit rate in hot dogs per minute? Round to the nearest hundredth if necessary.

Teresa shucked 10 ears of corn in 4 minutes. At this rate, how long would it take her to shuck 24 ears of corn?

Yesterday, Dan waited on 8 tables and made \$76. Today, he waited on 10 tables and made \$95. Was the money he made proportional to the number of tables he had?

Solve.

$$\frac{6}{8} = \frac{n}{18}$$

The Thompson family drove 1452 miles in 3 days. At that rate, how far would they travel in 10 days?

A store charges \$19 for a bag of 40 shrimp.  
What is the unit price?

A store charges \$18 for a pack of 10 pork chops and \$12.60 for a pack of 7. Is the price proportional to the number of pork chops purchased?



Solve.

$$\frac{3}{x} = \frac{5}{4}$$

Jimmy ran 13 miles in 2.7 hours. What was his unit rate?

Nancy can type 1178 words in 19 minutes. What is her unit rate?

