

Ratios, Rates, and Conversions

① Which store offers the best deal?

Store A

$$\frac{\$25}{2 \text{ shirts}} \div 2 = \frac{\$12.50}{1 \text{ shirt}}$$

Store B

$$\frac{\$45}{4 \text{ shirts}} \div 4 = \frac{\$11.25}{1 \text{ shirt}}$$

Store C

$$\frac{\$30}{3 \text{ shirts}} \div 3 = \frac{\$10}{1 \text{ shirt}}$$

Best Deal

Unit Rate

② Convert 3.2 ft to cm.

$$\frac{3.2 \text{ ft}}{1} \cdot \frac{12 \text{ in}}{1 \text{ ft}} \cdot \frac{2.54 \text{ cm}}{1 \text{ in}} = 97.5 \text{ cm (Round - Tenths)}$$

③ Convert 75 mph to m/s.

$$\frac{75 \text{ mi}}{1 \text{ hr}} \cdot \frac{1 \text{ hr}}{60 \text{ min}} \cdot \frac{1 \text{ min}}{60 \text{ sec}} \cdot \frac{1.609 \text{ km}}{1 \text{ mi}} \cdot \frac{1,000 \text{ m}}{1 \text{ km}} = \frac{33.5 \text{ m}}{\text{s}}$$

Rounded (Tenths)