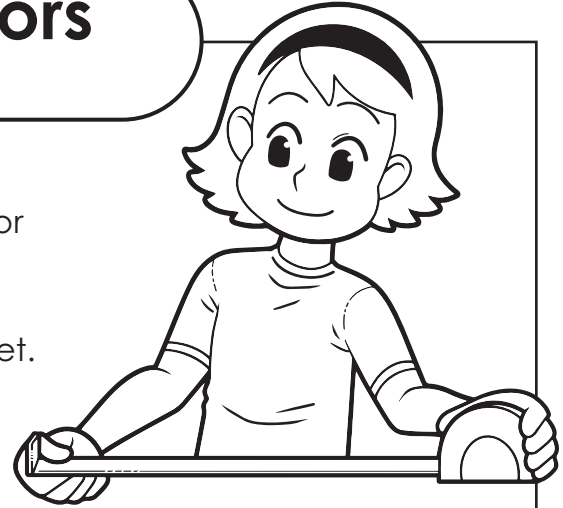


Name: _____

Conversion Factors

Inches, Feet, Yards, Miles



A **conversion factor** is the number a value is multiplied by to convert between units of measurement. The conversion factor is the ratio between the desired unit and the current unit.

Example: Use a conversion factor to convert 30 inches to feet.

The ratio of feet to inches is 1:12, or $\frac{1}{12}$.

$$30 \text{ in} \times \frac{1}{12} = 2.5 \text{ ft}$$

12 inches = 1 foot

3 feet = 1 yard

1,760 yards = 1 mile

Use the information to give the conversion factor between units. Simplify.



Preview

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d. feet to inches _____

inches to feet _____

e. miles to yards _____

yards to miles _____

f. miles to inches _____

inches to miles _____

Complete the equation using the conversion factor found above.

g. $16 \text{ yd} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ ft}$

h. $11,616 \text{ ft} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ mi}$

i. $1,260 \text{ in} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ yd}$

j. $7,480 \text{ yd} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{ mi}$

ANSWER KEY

Conversion Factors

Inches, Feet, Yards, Miles



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