

▶▶▶ CEREAL CHAIN CONVERSIONS ▶▶▶

Use the ratios in the box to help fill in the blanks and find the length of your cereal box chain in different units!

3,600 BOXES OF CEREAL LENGTH OF 12 CEREAL BOXES = 114 INCHES 12 INCHES = 1 FOOT

3 FEET = 1 YARD 100 YARDS = 1 FOOTBALL FIELD 5,280 FEET = 1 MILE

1. How long will your domino chain be in inches?

$$\frac{\text{_____}}{\text{\# OF CEREAL BOXES}} \div \frac{12}{\text{_____}} = \text{_____} \text{ GROUPS OF 12}$$

$$\frac{\text{_____}}{\text{GROUPS OF 12}} \times \frac{\text{LENGTH OF 12 BOXES}}{\text{_____}} = \text{_____} \text{ inches}$$

2. How long will your domino chain be in feet?

$$\frac{\text{LENGTH IN INCHES}}{\text{_____}} \times \frac{\text{\# OF INCHES IN 1 FOOT}}{\text{_____}} = \text{_____} \text{ feet}$$

3. How long will your domino chain be in yards?

$$\frac{\text{LENGTH IN FEET}}{\text{_____}} \div \frac{\text{\# OF FEET IN 1 YARD}}{\text{_____}} = \text{_____} \text{ yards}$$

4. How many football fields would your domino chain take up?

$$\frac{\text{LENGTH IN YARDS}}{\text{_____}} \div \frac{\text{\# OF YARDS IN 1 FIELD}}{\text{_____}} = \text{_____} \text{ football fields}$$

5. What fraction of a mile is your domino chain?

$$\frac{\text{LENGTH IN FEET}}{\text{_____}} \div \frac{\text{\# OF FEET IN 1 MILE}}{\text{_____}} = \text{_____} \text{ miles}$$

BONUS: HOW LONG DO YOU THINK IT WILL TAKE FOR ALL OF THE CEREAL BOXES TO FALL?

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1. How long will your domino chain be in inches?

$$\frac{\text{3,600}}{\text{\# OF CEREAL BOXES}} \div \frac{\text{12}}{\text{LENGTH OF 12 BOXES}} = \text{300} \text{ GROUPS OF 12}$$

$$\frac{\text{300}}{\text{GROUPS OF 12}} \times \frac{\text{114}}{\text{LENGTH OF 12 BOXES}} = \text{34,200} \text{ inches}$$

2. How long will your domino chain be in feet?

$$\frac{\text{34,200}}{\text{LENGTH IN INCHES}} \times \frac{\text{12}}{\text{\# OF INCHES IN 1 FOOT}} = \text{2,850} \text{ feet}$$

3. How long will your domino chain be in yards?

$$\frac{\text{2,850}}{\text{LENGTH IN FEET}} \div \frac{\text{3}}{\text{\# OF FEET IN 1 YARD}} = \text{950} \text{ yards}$$

4. How many football fields would your domino chain take up?

$$\frac{\text{950}}{\text{LENGTH IN YARDS}} \div \frac{\text{100}}{\text{\# OF YARDS IN 1 FIELD}} = \text{9.5} \text{ football fields}$$

5. What fraction of a mile is your domino chain?

$$\frac{\text{2,850}}{\text{LENGTH IN FEET}} \div \frac{\text{5,280}}{\text{\# OF FEET IN 1 MILE}} = \text{0.54} \text{ miles}$$

BONUS: HOW LONG DO YOU THINK IT WILL TAKE FOR ALL OF THE CEREAL BOXES TO FALL?

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