

Challenge

Animal Rates of Speed

The table at the right shows how many feet each of several animals can travel per second if they are traveling at top speed.

Use the information in the table to solve each problem. You may want to make a multiplication column table to help.

Animal Speeds

Animal	Feet per Second
Cat	44.00
Coyote	63.06
Elk	66.00
Gray Fox	61.60
Grizzly Bear	44.00
Mule Deer	51.33
Squirrel	17.60

1. At its top speed, how many feet can a coyote travel in 5 seconds?

2. A mule deer runs at top speed for 10 seconds. How many feet does it travel?

3. A grizzly bear runs at top speed for 3 seconds and then slows down to 40 feet per second for the next 3 seconds. How far does the grizzly bear travel?

4. Suppose an elk and a gray fox could run a race. If they both run at top speeds, by how many feet would the elk be leading the fox after 1 second? By how many feet would it lead after 2 seconds? By how many feet would it lead after 3 seconds?

5. A cat is 100 feet behind a squirrel. They both run at top speed in the same direction in a straight line. In about how many seconds will the cat catch up to the squirrel?

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1. At its top speed, how many feet can a coyote travel in 5 seconds?

315.3 feet

2. A mule deer runs at top speed for 10 seconds. How many feet does it travel?

513.3 feet

3. A grizzly bear runs at top speed for 3 seconds and then slows down to 40 feet per second for the next 3 seconds. How far does the grizzly bear travel?

252 feet

4. Suppose an elk and a gray fox could run a race. If they both run at top speeds, by how many feet would the elk be leading the fox after 1 second? By how many feet would it lead after 2 seconds? By how many feet would it lead after 3 seconds?

1 second: 4.4 feet; 2 seconds: 8.8 feet;

3 seconds: 13.2 feet

5. A cat is 100 feet behind a squirrel. They both run at top speed in the same direction in a straight line. In about how many seconds will the cat catch up to the squirrel?

just over 4 seconds
