

# 5.NBT.B.7 Divide Decimals by Decimals (Finding Unknown)

5.NBT.B.7: Add, subtract, multiply, and divide decimals to hundredths.

1. Find  $n$ .

- a.  $10.92 \div n = 8.4$
- b.  $n \div 2.2 = 18.40$
- c.  $24.32 \div n = 3.8$
- d.  $9.12 \div n = 0.57$
- e.  $n \div 0.14 = 7.35$
- f.  $238.095 \div 3.3 = n$

Answers:

- a.
- b.
- c.
- d.
- e.
- f.
- g.  $47.25 \div 0.42 = n$
- h.  $14.64 \div n = 6.1$
- i.  $n \div 1.8 = 14.9$
- j.  $1.3296 \div n = 0.12$
- k.  $50.56 \div n = 6.4$
- l.  $n \div 3.3 = 2.05$

Answers:

- g.
- h.
- i.
- j.
- k.
- l.

2. Lilia mixed 13.14 pounds apples and 9.36 pounds of pears to be put equally into 18 bowls. How much does each bowl of fruits weigh?

Answer:

3. Ivy paid \$21.06 for a box of juice. If a liter of juice cost \$1.3, how many liters of juice did Ivy buy?

Answer:

4. The table shows the winners of the track and field running competition. Use the table to answer the questions below.

Track and Field Results

Name	Distance (m)	Time (s)
Jacob	14.95	6.5
Laurence	3.92	2.8
Marion	6.84	3.8
Ayven	10.5	4.2
Nathan	24.18	7.8

- a. How far can Jacob run in one second?
- b. Between Laurence and Marion, who covers a greater distance per second? By how much?
- c. Make a table that lists the distance per second of each winner.

Answers:

a.

b.

c.

Name	Distance per second
Jacob	
Laurence	
Marion	
Ayven	
Nathan	

5. Peter jogged for 4 days. He jogged 5.2 hours on each day he jogged. He jogged a total of 89.44 kilometers. How far did he jog in an hour?

Answer:

- A. 4.2 km      B. 4.3 km      C. 4.4 km      D. 4.5 km

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## Answer Key

1. Find  $n$ .

- a.  $10.92 \div n = 8.4$
- b.  $n \div 2.2 = 18.40$
- c.  $24.32 \div n = 3.8$
- d.  $9.12 \div n = 0.57$
- e.  $n \div 0.14 = 7.35$
- f.  $238.095 \div 3.3 = n$

Answers:

- a. **1.3**
- b. **40.48**
- c. **6.4**
- d. **16**
- e. **1.029**
- f. **72.15**

- g.  $47.25 \div 0.42 = n$
- h.  $14.64 \div n = 6.1$
- i.  $n \div 1.8 = 14.9$
- j.  $1.3296 \div n = 0.12$
- k.  $50.56 \div n = 6.4$
- l.  $n \div 3.3 = 2.05$

Answers:

- g. **112.5**
- h. **2.4**
- i. **26.82**
- j. **11.08**
- k. **7.9**
- l. **6.765**

2. Lilia mixed 13.14 pounds apples and 9.36 pounds of pears to be put equally into 18 bowls. How much does each bowl of fruits weigh?

Answer:  
**1.25 pounds**

3. Ivy paid \$21.06 for a box of juice. If a liter of juice cost \$1.3, how many liters of juice did Ivy buy?

Answer:  
**16.2 liters**

4. The table shows the winners of the track and field running competition. Use the table to answer the questions below.

Track and Field Results

Name	Distance (m)	Time (s)
Jacob	14.95	6.5
Laurence	3.92	2.8
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Nathan	24.18	7.8

- a. How far can Jacob run in one second?
- b. Between Laurence and Marion, who covers a greater distance per second? By how much?
- c. Make a table that lists the distance per second of each winner.

Answers:

- a. **2.3 m**
- b. **Marion, by 0.4 meters per second**

c.

Name	Distance per second
Jacob	<b>2.3</b>
Laurence	<b>1.4</b>
Marion	<b>1.8</b>
Ayven	<b>2.5</b>
Nathan	<b>3.1</b>

5. Peter jogged for 4 days. He jogged 5.2 hours on each day he jogged. He jogged a total of 89.44 kilometers. How far did he jog in an hour?

Answer:  
**B. 4.3 km**

- A. 4.2 km      B. 4.3 km      C. 4.4 km      D. 4.5 km