

5.NBT.B.7 Estimate Quotients by Rounding Decimals

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

1. Estimate the quotients by rounding the given decimals.

- a. $5.9 \div 3$
b. $15.1 \div 5$
c. $31.6 \div 8$
d. $8.2 \div 0.9$
e. $151.23 \div 14.7$

Answers:

- a.
b.
c.
d.
e.
- f. $28.35 \div 5$
g. $241.83 \div 30$
h. $7.3 \div 0.8$
i. $32.1 \div 7.9$
j. $87.9 \div 11$

Answers:

- f.
g.
h.
i.
j.

2. Allan bought 7 cardboards for his art project. He paid \$55.65 for the 7 cardboards. About how many dollars does 1 cardboard cost?

Answer:

3. Twelve members of the dance group went to buy snacks together and spent \$143.52. About how much money did the group spend on snacks for each member?

Answer:

4. Mr. Green collected a total of 34.09 kilograms of soil for his new garden in just a whole week. About how many kilograms of soil did he collect each day? Give a lower and a higher estimate.

Answer:

5. Travis traveled approximately 35.5 miles on his motorcycle for 3 hours. Estimated the speed at which Travis drove his motorcycle.

Answer:

6. Teacher Amy checked 131 test papers in 5.8 hours. If she checked 30 test papers in the first hour, about how many test papers did she check per hour in the rest of the 4.8 hours?

Answer:

7. Eric's pencil measures 28.3 centimeters. He uses his friend's ruler to measure his pencil in inches. The length of his pencil is 11.1 inches. About how many centimeters is one inch?

Answer:

8. A 6.3 mL of medicine costs \$27.72. Which is the best estimate that shows the cost of medicine per mL?

Answer:

- A. \$4 B. \$5 C. \$6 D. \$6.5

5.NBT.B.7 Estimate Quotients by Rounding Decimals

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

Answer Key

1. Estimate the quotients by rounding the given decimals.

- a. $5.9 \div 3$
- b. $15.1 \div 5$
- c. $31.6 \div 8$
- d. $8.2 \div 0.9$
- e. $151.23 \div 14.7$

Answers:

- a. 2
- b. 3
- c. 4
- d. 8
- e. 10

- f. $28.35 \div 5$
- g. $241.83 \div 30$
- h. $7.3 \div 0.8$
- i. $32.1 \div 7.9$
- j. $87.9 \div 11$

Answers:

- f. 6
- g. 8
- h. 7
- i. 4
- j. 8

2. Allan bought 7 cardboards for his art project. He paid \$55.65 for the 7 cardboards. About how many dollars does 1 cardboard cost?

Answer:
\$8

3. Twelve members of the dance group went to buy snacks together and spent \$143.52. About how much money did the group spend on snacks for each member?

Answer:
\$12

4. Mr. Green collected a total of 34.09 kilograms of soil for his new garden in just a whole week. About how many kilograms of soil did he collect each day? Give a lower and a higher estimate.

Answer:
5 kg; lower – 4kg;
higher – 5 kg

5. Travis traveled approximately 35.5 miles on his motorcycle for 3 hours. Estimated the speed at which Travis drove his motorcycle.

Answer:
12 miles per hour

6. Teacher Amy checked 131 test papers in 5.8 hours. If she checked 30 test papers in the first hour, about how many test papers did she check per hour in the rest of the 4.8 hours?

Answer:
20 test papers

7. Eric's pencil measures 28.3 centimeters. He uses his friend's ruler to measure his pencil in inches. The length of his pencil is 11.1 inches. About how many centimeters is one inch?

Answer:
3 inches

8. A 6.3 mL of medicine costs \$27.72. Which is the best estimate that shows the cost of medicine per mL?

- A. \$4
- B. \$5
- C. \$6
- D. \$6.5

Answer:
B. \$5