

Units and accuracy — Units in a calculation

Name: _____

Date: _____

Track the units. Circle the unit the answer comes out in.

1 A rectangle is 11 m long and 3 m wide. What unit does 11×3 have?

- a) m b) m^3 **c) m^2** d) m^4

2 A faucet is opened and fills 8 liters per minute for 30 minutes. What unit does 8×30 have?

- a) liters per minute b) minutes
c) liters d) liters per minute per minute

3 A rectangle is 9 ft long and 4 ft wide. What unit does $9 + 4 + 9 + 4$ have?

- a) ft^2 b) ft c) ft^3 d) ft^4

4 A box is 12 cm by 5 cm by 4 cm. What unit does $12 \times 5 \times 4$ have?

- a) cm^2 b) cm^3 c) cm d) cm^4

5 12 apples cost \$5 altogether. What unit does $5 \div 12$ have?

- a) dollars b) dollars per apple
c) apples d) apples per dollar

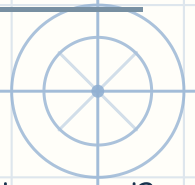


Units and accuracy — Choosing a quantity

Name: _____

Date: _____

Circle the quantity that lets two different-sized groups be compared.



1 Two classes read for 3 weeks and 8 weeks. Which compares how much they read?

- a) books read b) weeks spent reading
c) number of students **d) books per week**

2 Two schools have 450 students and 1200 students. Which compares how crowded they are?

- a) number of students b) number of teachers
c) students per classroom d) number of classrooms

3 Two farms cover 200 acres and 550 acres. Which compares what they grew?

- a) tons harvested b) acres planted
c) tons per acre d) number of tractors

4 Two towns have 20,000 homes and 50,000. Which compares how much they recycle?

- a) pounds recycled b) number of homes
c) pounds per home d) number of collection days

5 Two vans drove 180 miles and 450 miles. Which compares their fuel use?

- a) gallons used b) miles driven
c) gallons per mile d) number of stops

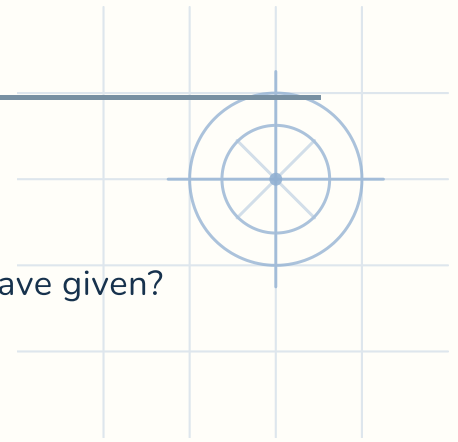


Units and accuracy — How many digits to report

Name: _____

Date: _____

Circle the reading that the measuring tool could honestly give.



1 A tape reads to the nearest inch. Which reading could it not have given?

- a) 18 in b) 72 in **c) 31.5 in** d) 45 in

2 A ruler reads to the nearest 0.1 cm. Which reading could it not have given?

- a) 6.8 cm b) 10.0 cm c) 4.75 cm d) 7.3 cm

3 A scale reads to the nearest 0.5 kg. Which reading could it not have given?

- a) 2.0 kg b) 11.5 kg c) 10.7 kg d) 6.5 kg

4 A thermometer reads to the nearest 1 °F. Which reading could it not have given?

- a) 74.5 °F b) 68 °F c) 71 °F d) 83 °F

5 A jug reads to the nearest 0.1 L. Three pours: 5.6, 2.2, 3.1 L. What is the total?

- a) 10.90 L b) 10.9 L c) 11 L d) 8.7 L



Name: _____

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Think about what is measured, and how finely. Circle the best answer.



1 A bus goes 450 miles on 15 gallons of fuel. What unit does $450 \div 15$ have?

- a) miles **b) miles per gallon**
c) gallons d) gallons per mile

2 A ruler reads to the nearest 0.1 cm. Which reading could it not have given?

- a) 6.8 cm b) 10.0 cm c) 4.75 cm d) 7.3 cm

3 Two cities have 60,000 people and 180,000. Which compares how safe they are?

- a) crimes per 1,000 people b) number of crimes
c) number of people d) number of police officers

4 A rectangle is 9 m long and 4 m wide. What unit does 9×4 have?

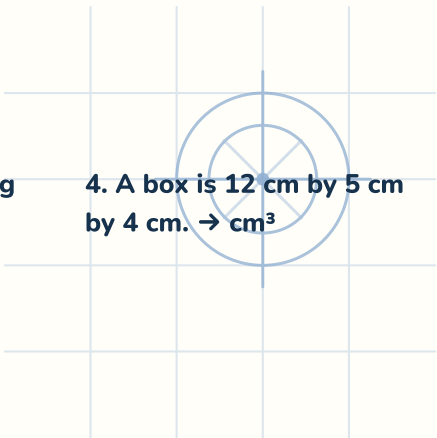
- a) m b) m^2 c) m^3 d) m^4

5 Two clinics open 30 hours a week and 60 hours. Which compares how busy they are?

- a) patients seen b) hours open
c) patients per hour d) number of doctors



Power Pack · Units and accuracy — Answer key



Do the units work?

1. A rectangle is 11 m long and 3 m wide. → m^2

5. 12 apples cost \$5 altogether. → dollars per apple
2. A faucet is opened and fills 8 liters per minute for 30 minutes. → liters
3. A rectangle is 9 ft long and 4 ft wide. → ft
4. A box is 12 cm by 5 cm by 4 cm. → cm^3

Which quantity?

1. Two classes read for 3 weeks and 8 weeks. → books per week

5. Two vans drove 180 miles and 450 miles. → gallons per mile
2. Two schools have 450 students and 1200 students. → students per classroom
3. Two farms cover 200 acres and 550 acres. → tons per acre
4. Two towns have 20,000 homes and 50,000. → pounds per home

How many digits?

1. A tape reads to the nearest inch. → 31.5 in

5. A jug reads to the nearest 0.1 L. Three pours: 5.6, 2.2, 3.1 L. → 10.9 L
2. A ruler reads to the nearest 0.1 cm. → 4.75 cm
3. A scale reads to the nearest 0.5 kg. → 10.7 kg
4. A thermometer reads to the nearest 1 °F. → 74.5 °F

Mixed

1. A bus goes 450 miles on 15 gallons of fuel. → miles per gallon

5. Two clinics open 30 hours a week and 60 hours. → patients per hour
2. A ruler reads to the nearest 0.1 cm. → 4.75 cm
3. Two cities have 60,000 people and 180,000. → crimes per 1,000 people
4. A rectangle is 9 m long and 4 m wide. → m^2