



For full credit, show your work.

1. Calculate the volume of a block that is 3.4cm x 1.5cm x 2.191cm. (Hint, some people are helped by drawing the shape first.)**

$$3.4 \times 1.5 \times 2.191 = 11 \text{ cm}^3$$

2. Calculate the volume of a cube that is 3.096 on each edge.**

$$3.096 \times 3.096 \times 3.096 = 29.68 \text{ cm}^3$$

3. What is the perimeter of a rectangle that is 4.628cm x 3.4cm? **

$$= 16.056 \approx 16.1$$

round to tenths

Determine the number of significant figures in the following measurements.

- 3) 104.20 g five
 4) 1,700,000 km two
 5) 0.00020 kg two
 6) 842.0 cm four
 7) 640,002 m six
 8) 10,000 s one

- 9) 190.60 g five
 10) 1.0004230 g eight
 11) 0.004200 m four
 12) 7000.07 mm six
 13) 35,000 km two

Round each of the following to 3 significant figures.

- 14) 1.2793 kg 1.28 ~~106~~
 15) 10625 kPa 10600 10600.
 16) 37486 m 37500.
 17) 0.01245 s 0.0125
 18) 101.09 fs 101
 19) 2453 g 2450

** remember to use significant figures when rounding your answer

Answers

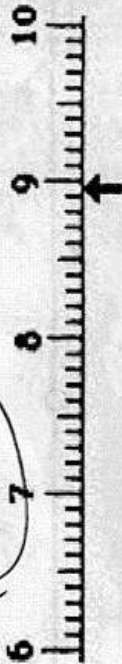
Round each number to the nearest hundred.

- | | | | | | |
|----|-----|------------|-----|-----|------------|
| 1) | 332 | <u>300</u> | 6) | 533 | <u>500</u> |
| 2) | 327 | <u>300</u> | 7) | 749 | <u>700</u> |
| 3) | 859 | <u>900</u> | 8) | 484 | <u>500</u> |
| 4) | 777 | <u>800</u> | 9) | 749 | <u>700</u> |
| 5) | 863 | <u>900</u> | 10) | 734 | <u>700</u> |

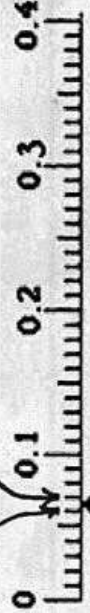
Round each number to the nearest hundred.

- | | | | | | |
|----|-------|-----------------------------|-----|-------|--------------|
| 1) | 9,551 | 9500 <u>9600</u> | 6) | 7,474 | <u>7500</u> |
| 2) | 5,379 | <u>5400</u> | 7) | 6,326 | <u>6300</u> |
| 3) | 1,425 | <u>1400</u> | 8) | 9,984 | <u>10000</u> |
| 4) | 6,947 | <u>6900</u> | 9) | 6,298 | <u>6300</u> |
| 5) | 3,196 | <u>3200</u> | 10) | 1,751 | <u>1800</u> |

Reading 8.95 How many sig figs? 4



Reading 0.07 How many sig figs? 2



therefore, this arrow is 0.064

Answer: 0.064

Answered by (signature):

E Jones

TEAM LIFE!

Worth 5 points classwork Credit:
Half off if worked alone

Name ANSWERS!
Name _____
Station # _____

Answered by (signature):

ANSWERS!

Use your sig figs rules to round your answer:

$0.0070 \times 22.00 = 0.154 \approx 0.15$

two sig figs four sig figs should round to two sig figs

Answered by (signature):

E Jones

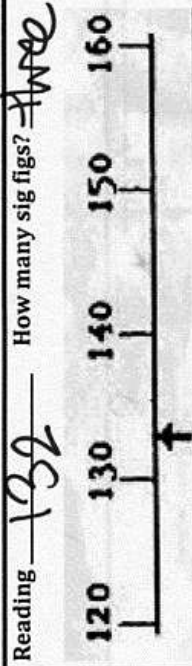
Use your sig figs rules to round your answer:

$2.0070 \div 22.00 = 44.154 \approx 44.15$

five sig figs four sig figs round to four sig figs

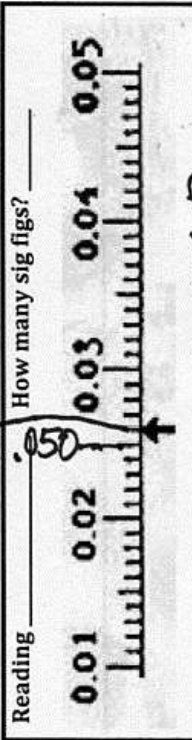
Answered by (signature):

E Jones



answer: 132

Answered by (signature): [Signature]



ANSWER: 0.060 has two sig figs.

Answered by (signature): [Signature]



Calculate the volume of a cube that is 6.096 on each edge. Round your answer to the correct number of sig figs!

Volume = $L \times W \times H$
 Volume = $6.096 \times 6.096 \times 6.096$
 Volume = $226.53 \approx 226.5$ ← answer has four sig figs

Answered by (signature): [Signature]

Calculate the volume of a block that is 9.4cm x 1.5cm x 2.191cm.

$\rightarrow 30.8931 \approx 31 \text{ cm}^3$
 Round to two sig figs

Two Two

Answered by (signature): [Signature]