

1. How many sigfigs do each of the following measurements have?

- a. 1.25 kg c. 11 s e. 1.283 cm g. 2000000 years
b. 1255 kg d. 150 m f. 365.249 days h. 17.25 L

2. In the space following each value below, put "M" if the value was likely obtained by a Measurement, or "C" if the value was probably determined by Counting.

- a. 4 comets b. 45 seconds c. 6.5 liters d. 12 TV sets e. 12 grams

3. State the number of sigfigs in each of the following.

- a. 3570 c. 41.400 e. 0.000572 g. 4.150×10^{-4} i. 1.234×10^8
b. 17.505 d. 0.51 f. 0.00900 h. 7.160×10^5 j. 4100

4. Give the answer to the correct number of sigfigs.

- a. 12.5×0.50 e. $(6.40 \times 10^8)(5 \times 10^5)$ i. 4.75×5
b. 0.15×0.0016 f. $(4.37 \times 10^3) / 0.0085600$ j. $0.00001 / 0.1000$
c. $40.0 / 30.0000$ g. 51.3×3.940 k. $7.4 \div 3$
d. $2.5 \times 7.500 / 0.150$ h. $(5.1 \times 10^{-5}) \div (6 \times 10^{-7})$ l. 0.00043×0.005001

5. Give the answer to the correct number of sigfigs.

- a. $15.1 + 75.32$ f. $0.0000481 - 0.000817$
b. $178.90456 - 125.8055$ g. $7.819 \times 10^5 - 8.166 \times 10^4$
c. $4.55 \times 10^{-5} + 3.1 \times 10^{-5}$ h. $45.128 + 8.50187 - 89.18$
d. $0.000159 + 4.0074$ i. $5.89 \times 10^{-8} + 7.785 \times 10^{-8}$

e. $1.805 \times 10^4 + 5.89 \times 10^2$

j. $8.975 \times 10^{-11} + 6.1157 \times 10^{-9}$

6. Give the answer to the correct number of sigfigs.

a. $7.95 + 0.583$

f. $45.9 - 15.0025$

b. $1.99 / 3.1$

g. 375.59×1.5

c. $4.15 + 1.582 + 0.0588 - 35.5$

h. $5.1076 \times 10^{-3} - 1.584 \times 10^{-2} + 2.008 \times 10^{-3}$

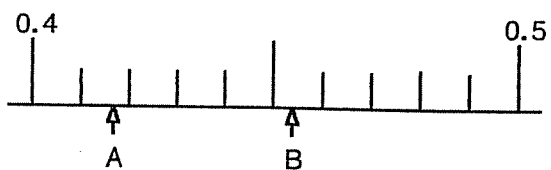
d. $1200.0 / 3.0$

i. $1252.7 - 9.4 \times 10^{-3}$

e. $5.31 \times 10^{-4} / 3.187 \times 10^{-8}$

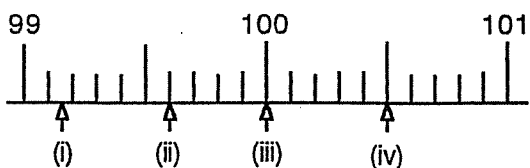
j. $0.02400 / 6.000$

7. Read the following scales. Be sure to use the correct number of sigfigs.



A = _____

B = _____

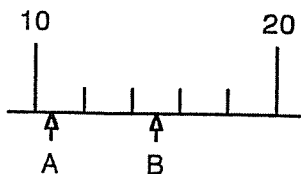


Reading at (i) = _____

Reading at (ii) = _____

Reading at (iii) = _____

Reading at (iv) = _____



A = _____

B = _____