

A. Write the STANDARD NUMERALS

a. $30 + 5\,000 + 6 + 0.2 + 10$ _____

b. $5\,000\,000 + 20\,000 + 7\,000 + 60$ _____

c. $4 + 0.03 + 100 + 0.7 + 90$ _____

d. Twenty four million three hundred seven thousand _____

e. Six hundred forty six thousand four hundred one and twenty five hundredths _____

B. Write in WORD FORM

a. 3 456 702 _____

b. 43.07 _____

c. 5.076 _____

C. Write in EXPANDED FORM

e.g. $35.6 = 3 \times 10 + 5 \times 1 + 6 \times 0.1$

a. 789.7 _____

b. 47.05 _____

c. 7 067 501 _____

D. Write the STANDARD NUMERALS

e.g. $4 \times 10\,000 + 6 \times 1\,000 + 5 \times 10 + 3 \times 0.1 = 46050.3$

a. $5 \times 10 + 3 \times 1 + 8 \times 0.1 + 9 \times 0.01$ _____

b. $3 \times 1\,000\,000 + 7 \times 10\,000 + 4 \times 1\,000 + 6 \times 100$ _____

E. **ROUND** to the indicated **PLACE VALUE**

- a. 39.68 (tenth) _____
b. 2 794 (thousand) _____
c. 5 376 289 (ten thousand) _____

F. Complete the Chart

	$\times 100$	$\times 0.1$	$\div 1\ 000$	$\div 0.01$
27.8				
5.3				
215				
9				

G. **MULTIPLY**

a.
$$\begin{array}{r} 38275 \\ \times 214 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 69.307 \\ \times 3.6 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 5273 \\ \times 0.009 \\ \hline \end{array}$$

d. $4 \times 3278 \times 25$

H. **DIVIDE** (Round c, d and e to the nearest hundredth)

a. $12 \overline{) 39812}$

b. $2.3 \overline{) 15.87}$

c. $1.5 \overline{) 329.7}$

I. Calculate using order of operations (BEDMAS)

a. $(12 + 3) \div 5$

b. $(5-2)^2 \times 3$

c. $5+2^2 \times 3$

d. $3 \times 3^2 + 4 - 2$

e. $(2^3 - 5)^2 + 3$

f. $2^3 + 2 + 3 \times (8-3)^2$

J. Insert brackets to make each statement true:

a. $20 \div 4 + 1 - 2 = 2$

b. $12 - 3 \times 2 + 6 = 72$

c. $6 + 15 \div 3 \times 4 = 28$

K. Record the divisibility of each number (YES or NO):

Divisible	By 2	By 3	By 4	By 5	By 6	By 9
432						
2715						
4824						
1270						

L. Circle the **PRIME NUMBERS** and box the **COMPOSITE NUMBERS**

14 23 7 9 38 5 72 105 41 39

M. List the **FACTORS**

16 _____ 40 _____
27 _____ 72 _____

Give the **COMMON FACTORS** for these numbers

18 _____ 25 _____
24 _____ 45 _____

Give the **GREATEST COMMON FACTOR** for these numbers

12 & 20 _____ 15 & 24 _____ 18 & 30 _____

List some multiples for each number pair. Circle the **LOWEST COMMON MULTIPLE**

6 _____ 4 _____ 12 _____
5 _____ 3 _____ 8 _____

Give the **L.C.M.** for these numbers

6, 12, 8 _____ 5, 4, 3 _____ 2, 3, 5 _____

N. Complete the **FACTOR TREES** (Remember final factors should be **PRIME NUMBERS**)

36

27

120

O. EXPONENTS

Evaluate the POWERS

$2^4 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$10^5 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$6^2 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$4^3 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

Write as an EXPONENT

$3 \times 3 \times 3 \times 3 \times 3 = \underline{\hspace{2cm}}$

$4 \times 4 \times 4 \times 4 \times 4 = \underline{\hspace{2cm}}$

$2 \times 2 \times 2 \times 2 \times 2 \times 2 = \underline{\hspace{2cm}}$

Write these factors as EXPONENTS

$48 = 2 \times 2 \times 2 \times 2 \times 3 = \underline{\hspace{2cm}}$

$36 = 2 \times 2 \times 3 \times 3 = \underline{\hspace{2cm}}$

P. FRACTIONS

Write in simplest form:

$\frac{12}{16}$

$\frac{25}{30}$

$\frac{32}{48}$

$\frac{23}{4}$

$\frac{22}{6}$

Change to an improper fraction:

$3\frac{1}{4}$

$7\frac{2}{3}$

$3\frac{5}{8}$

Change to a mixed number:

$\frac{14}{3}$

$\frac{25}{2}$

$\frac{18}{5}$

$\frac{36}{8}$

Write in order from least to greatest:

$\frac{3}{4}, \frac{7}{10}, \frac{1}{2}, \frac{13}{15}$

Change these decimals to fractions:

$0.6 =$

$0.55 =$

$0.26 =$

$2.25 =$

Add:

$$\frac{3}{4} + \frac{5}{6}$$

$$\frac{2}{3} + \frac{4}{5} + \frac{1}{2}$$

$$\frac{5}{8} + \frac{2}{3} + \frac{1}{4}$$

$$1\frac{3}{8} + 3\frac{4}{5}$$

$$4\frac{5}{12} + 2\frac{3}{4} + 1\frac{2}{3}$$

Subtract:

$$\frac{7}{12} - \frac{3}{8}$$

$$\frac{4}{5} - \frac{2}{3}$$

$$\frac{3}{4} - \frac{2}{5}$$

$$2\frac{1}{4} - \frac{5}{8}$$

$$3\frac{1}{2} - 1\frac{2}{3}$$

$$4\frac{3}{8} - 2\frac{5}{6}$$

Multiply:

$$\frac{3}{5} \times \frac{5}{6} \times \frac{2}{3}$$

$$1\frac{4}{5} \times 10$$

$$\frac{2}{3} \times \frac{5}{12} \times \frac{7}{10}$$

$$3\frac{3}{5} \times 2\frac{7}{9}$$

$$1\frac{5}{8} \times 5\frac{1}{3}$$

Divide:

$$\frac{3}{5} \div \frac{7}{10}$$

$$\frac{1}{10} \div 6$$

$$4 \div \frac{3}{4}$$

$$1\frac{1}{3} \div \frac{3}{8}$$

$$2\frac{2}{3} \div 3\frac{1}{3}$$

$$\frac{1}{2} \div 1\frac{1}{4}$$

Use the order of operations to complete these calculations:

$$\frac{2}{3} + \frac{1}{2} \times \frac{3}{4}$$

$$\frac{4}{7} \div \frac{3}{7} + \frac{2}{3} \div \frac{5}{3}$$

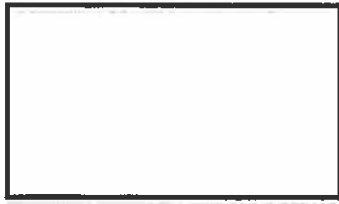
$$\frac{1}{5} \times 10 - \frac{1}{4} \times 8 + 11$$

Q. Calculate the **PERIMETER**

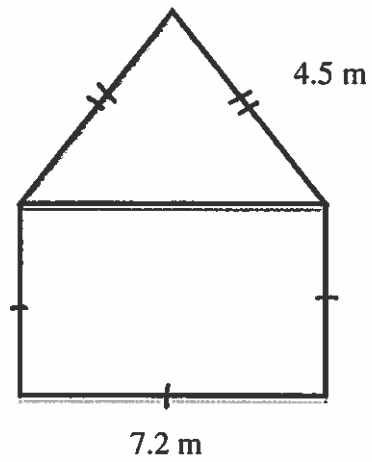
a.

c.

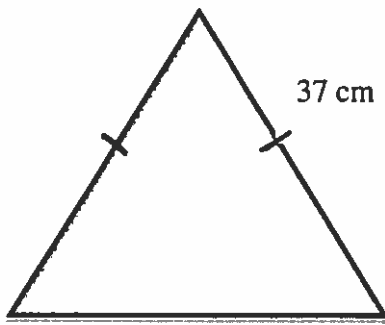
12.8 m



24.6 m



7.2 m

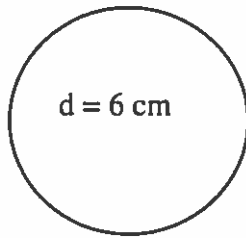


21 cm

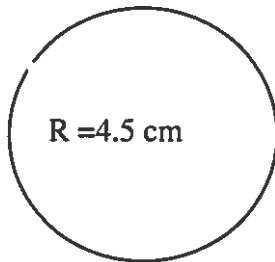
d. John ran four times around a **SQUARE** playground. The total distance he ran was 216 m. How long is the playground on one side?

Calculate the circumference

e.

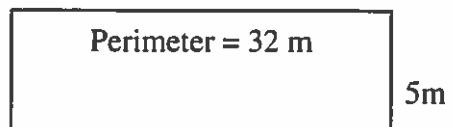


f.



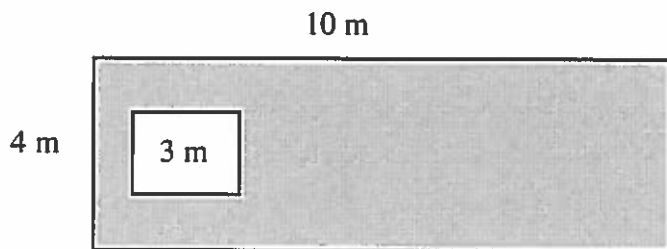
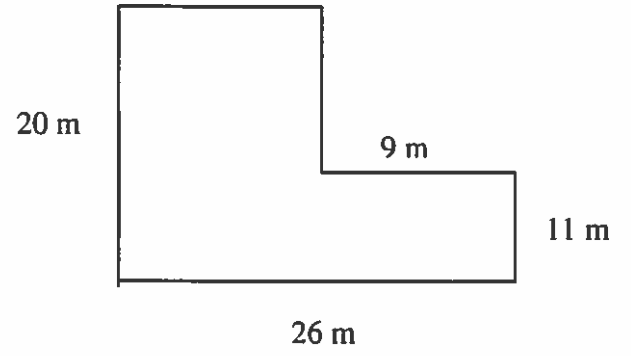
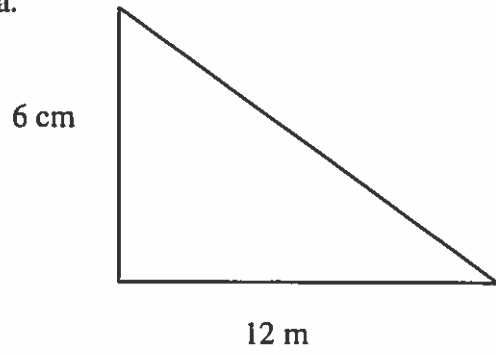
h. If the circumference is 37.68 cm, what is the radius?

i. What is the base of the rectangle below.



R. Calculate the **AREA**:

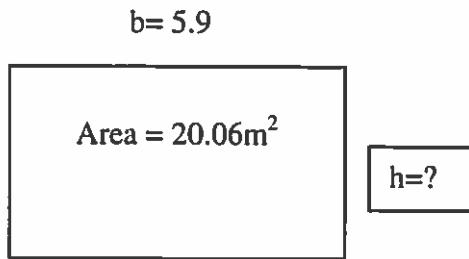
a.



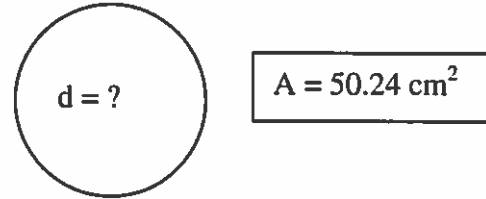
Calculate the area of the shaded part of the diagram

Find the missing measurement:

a.



b.

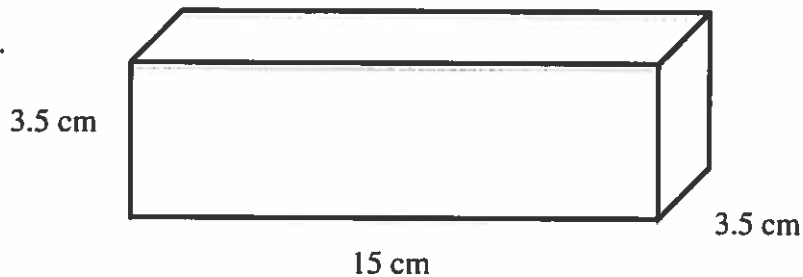


Solve the following problem:

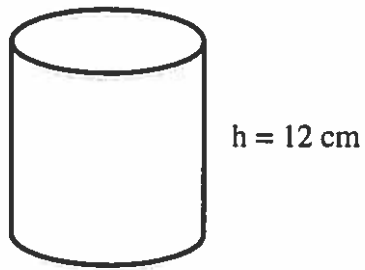
A farmer has 60 m of fencing to close in his chickens in a rectangular coop. Draw 3 different coops that he could make. Record the length and width of each coop. Calculate the area of each. What are the measurements of the coop which gives him the greatest possible area?

R. Find the VOLUME of these shapes.

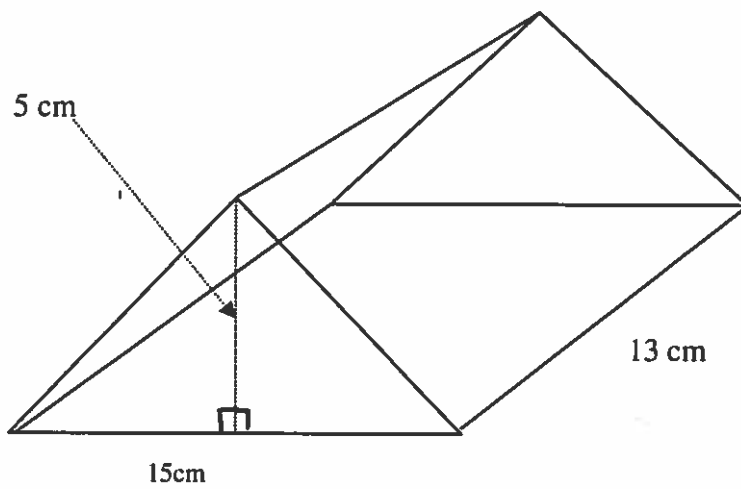
a.



b. radius = 5 cm



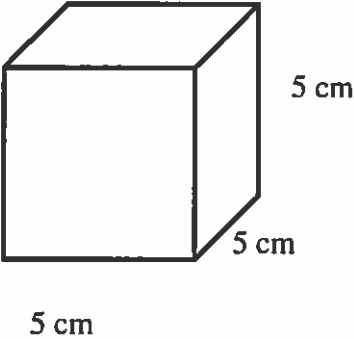
c.



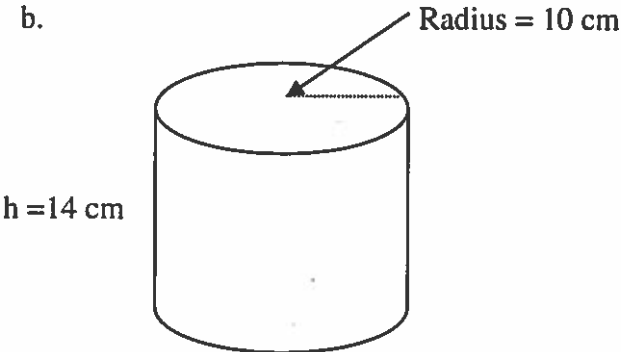
d. Draw a rectangular prism. Write on it the measurements which would make it have a volume of 120 cm^3 .

S. Find the SURFACE AREA of these shapes

a.



b.



c.

