calculator test

name _____

1) Evaluate to 2 decimal places (where necessary)

a) $\sqrt{14.2}$ =

b) $\sqrt{37 + 5.8}$ =

c) $4.2^2 - 3.1^2$ =

d) $\frac{4.5 + 3.7}{6.8}$ =

e) $3.5 - \sqrt{2.9}$ =

f) 4.7^3 =

g) $\sqrt{\frac{0.73 + 1.4}{0.6}}$ =

h) $\left(\frac{5.1 \times 8.7}{47 + 3.2}\right)^6$ =

2) Evaluate to 3 significant figures.

a) 3.6^4 =

b) $\sqrt{9.1}$ =

c) $\frac{1}{3.5}$ =

d) $9.3 + \frac{1}{1.7}$ =

e) $\frac{3}{4}$ of 81 =

f) $\frac{6}{7}$ of 3.9 =

3) State the number of significant figures.

a) 47.030 .....

b) 6.003 .....

c) 0.00410 .....

d) 102 .....

4) Write each calculator display as a basic numeral.

a) 5.13 06 .....

b) 2.8 -05 .....

c) 3.2 04 .....

d) 5.01 -07 .....

5) Find

a) 7% of \$43 =

b) 20% of \$821 =

c) $9\frac{1}{2}$% of \$70 =

6)a) A shop has a 35% discount sale. Find the cost of an article with a marked price of \$48. (show working)

b) Lisa deposits \$45 in a savings account, receiving 14% p.a. interest. How much will this amount to after 1 year. (show working)

7) Evaluate to 3 dec. p

a) $\frac{97.6 + 1.82}{(4.9 - 1.3)^2}$

=

b) $\frac{6.7^4 + \sqrt{8.7}}{\sqrt{3.4 - 1.1}}$

=

c) $\sqrt{\frac{47 + 3.4}{7.6 + 2.3}}$

=

d) $\frac{3.5}{1.7} - \frac{4.9}{11.2}$

=

e) $\frac{(9.4 + 7.21)^5}{(6.1 + 3.4)^7}$

=

f) $(2.5)^2 + (1.8)^7$

=

g) $(4.3)^4 \times 0.0021$

=

h) $5.2^2 - \sqrt{27}$

=

i) $\sqrt{\frac{9.3 + 1.4^3}{3.8^2}}$

=

j) $\frac{4.7 - (3.4 + 1.2)}{7.3 - 5.3}$

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