$\qquad$ Class: $\qquad$

Sept.

## REMEMBER:

$$
\begin{aligned}
& \text { PYTHAGOREAN THEOREM } \\
& \text { AREA of rectangle }=1 \times w \\
& \text { PERIMETER of rectangle }=2 \mid+2 w
\end{aligned}
$$

ON your test: BONUS: SHOW your WORKINGS for MULTIPLE CHOICE( 3)
1.A) What is ?
B) What is as a decimal?
C) What is - as a fraction?
D) What is - ?
E) What is
F) What is
2. A) What is the best estimate for - as a decimal? Show your workings
(part of PF \& SR number lines)
B) What is the best estimate for as a decimal? Show your workings
3. A) What whole numbers does fall between?
B) What whole numbers does fall between?
C) The $\quad{ }^{2}$ is between which two perfect squares?
4. Given a square with area $1.96 \mathrm{~m}^{2}$, what is the length of the side of this square?
5. A)Given the diagram below, what is its side length? mm

B) What is the area of the following square? cm cm

6. A) What is the approximate length of the hypotenuse in this right triangle?

2.25 cm
B) Estimate, to the nearest tenth, the missing side.

2.89 mm

3|Page
7. Define:
A) hypotenuse
B) leg of a right triangle $\qquad$
C) Draw a diagram to label these parts on a right triangle.
8. Which is a perfect square? Explain your reasoning.
A)
B) -
C) -
D) -
E)
F) 0.0225
9. A) To be a non-perfect square, the shape is a $\qquad$ and it must not be
a terminating nor repeating decimal.
B) To be a perfect square, the shape is a $\qquad$ and it must be a terminating or repeating decimal.
10. What power would fit between the perfect squares 0.25 and 0.36 ?

4 | Page
11. What letter on the number line is a good estimation for those shown below? (4)

| NUMBER | LETTER |
| :---: | :---: |
| - |  |
| - |  |
| 2 |  |
| -2 |  |


12. Put the following in ascending order. Show/Explain why your arranged them this way. (2)


Order: $\qquad$
$\qquad$
$\qquad$
$\qquad$
13. What is the perimeter of a square which has an area equal to $289 \mathrm{~mm}^{2}$ ?

Draw a diagram to support your answer. (2)

