## SHOW ALL WORK on your work papers! Write your answers on the lines provided.

1. Write the rate as a fraction in simplest form. 42 yards in 14 seconds
2. Determine whether the proportion is a true proportion.
$\frac{3}{8}=\frac{9}{21}$
3. Find the value of $n$.
$\frac{2}{9}=\frac{3}{n}$
4. The ratio of a basketball player's completed free throws to attempted free throws is 4 to 7 . If she completed 8 free throws, find how many free throws she attempted. Round to the nearest whole number if necessary.
5. Express the fraction as a percent number: $\frac{7}{8}$
6. Write the equivalent decimal $\qquad$ and fraction $\qquad$ for $14 \%$.
7. Translate to a proportion. Do NOT solve. 92 is $68 \%$ of what number?
8. 3 is what percent of 24 ?
9. $\qquad$ is $81 \%$ of 106.
10. Find the simple interest when:

Principal $=\$ 410, \quad$ Rate $=6 \%, \quad$ Time $=4$ years.
11. A telephone costs $\$ 309$ and is subject to a $5 \%$ sales tax. What is the amount of the sales tax ?
What is the total purchase price of the telephone?
------_------_-_-_-_-_-_-
12. Bicycles are often on sale in one store during September. The regular price of one bicycle is $\$ 227.95$. With a " $30 \%$ off" sale in the bicycle department, what is the sale price of the bicycle? Round the answer to the nearest cent.
13. By switching service providers, a family's telephone bill changed from about $\$ 50$ a month to about $\$ 46$ a month. What was the percent decrease in the bill?

1) $\qquad$
2. $\qquad$
3) 
4) $\qquad$
5) 
6) $\qquad$
7) $\qquad$
8) 
9) $\qquad$
10) 
11) $\qquad$
12) $\qquad$
13) $\qquad$
14. Read the measurement at point $P$.


7
15. 9.5 miles $=$ $\qquad$ feet
16. 82 ounces $=$ $\qquad$ pounds
17. $7200 \mathrm{ml}=$ $\qquad$ liters
18. Arrange in order of size (smallest to largest): $\mathrm{km}, \mathrm{m}, \mathrm{mm}, \mathrm{cm}$
19. Lew is running a fever of $99.5^{\circ} \mathrm{F}$. Find this temperature as it would be shown on a Celsius thermometer.
20. Find the perimeter.

21. A circular fountain has a diameter of 20 ft . Approximate the distance around the fountain. Use 3.14 for $\pi$.
22. Find the area of the figure. 9 cm

23. Find the volume of a box 5 in. $x 8$ in. $x 2$ in.
24. Find the volume.

Use 3.14 as the approximate value for $\pi$.
25. $-(-7)+|-3|=$

14) $\qquad$
15)
16) $\qquad$
17) $\qquad$
18) $\qquad$
19) $\qquad$
20) $\qquad$
21) $\qquad$
22) $\qquad$
23) $\qquad$
24) $\qquad$
25) $\qquad$
26. $(-7)-(-3)=$
27. $|-7+(-7)|+|-7+3|=$
28. $(-7) \cdot(-3)^{2}=$
29. $\frac{(-7) \cdot 0}{-3}=$
30. Evaluate the expression for the given value.
$\frac{6 x-4}{5 x} ; x=-8$
31. Evaluate the expression for the given value.
$x^{2}+x^{3} ; x=-4$
32. Is $p=-13$ a solution of $13-8 p=-7 p$ ?
33. Solve the equation: $-8 \mathrm{a}=72$
34. Solve the equation: $\quad \frac{b}{5}+7=-6$
35. Translate the phrase into a mathematical expression. Let N represent the number.

Seven times the total of a number and eight
36. Five less than three times a number is 16 . Find the number.
36) $\qquad$

Conversions:
5280 feet $=1$ mile
16 ounces $=1$ pound
$\mathrm{F}=\frac{9}{5} \mathrm{C}+32$
$C=\frac{5}{9} \times(F-32)$

