## Extra Problems

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1. Simplify without the use of a calculator.
$-25 \times-4=$
2. Evaluate without the use of a calculator.

$$
(-9)^{2}=
$$

3. Identify the property illustrated in the following problem.
$(6+10)+8=6+(10+8)$
4. Simplify without the use of a calculator.
$25 \div 5+2 \times 3^{2}=$
5. Use the given values of the variables to find the value of the following expression.
$10 x+5 y$, when $x=5, y=-2$
6. Simplify.
$x \cdot x^{6} \cdot x^{3}=$
7. Simplify.
$\frac{45 x^{5}}{9 x^{3}}=$
8. Simplify without the use of a calculator.
$(12)^{0}=$
9. Simplify without the use of a calculator.
$64^{\frac{1}{3}}=$
10. Complete each ordered pair for the following equation.
$x+7 y=15$
$(1, \ldots)$

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11. Find the $x$ and $y$ intercepts of the given linear equation.

$$
x+3 y=9
$$

12. Find the slope of the line that contains the following points using the slope formula.
$(-7,5)$ and $(5,-1)$
13. Graph the following linear equation.

$$
y=-4 x+3
$$


14. Find the equation of the line with the given point and slope. Graph the line.

$$
m=\frac{3}{5}, \quad(-4,-4)
$$



Note: The angles and figures may not be drawn to scale.

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15. Find the distance between the two given points to the nearest tenth.
$(6,4)$ and $(-3,12)$
16. Graph the following equation.
$(x+2)^{2}+(y-2)^{2}=16$

17. Find $x$ if the angles are supplementary.

18. Convert the following decimal measure to DMS (Decimal Minutes Seconds).
45.543
19. Given that lines $m$ and $n$ are parallel, find the measure of $\angle 2, \angle 3, \angle 4$ if

20. Find the length of the hypotenuse of a right triangle whose legs have lengths of 30 m and 40 m .

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21. Find the perimeter and area of the following figure.

22. Find the circumference and area of a circle with a diameter of 30 inches to the nearest tenth.
23. In the following right triangle, find the length of side $x$ to the nearest tenth.

24. Find the area of the given triangle to the nearest tenth.

25. Find $c$ in the given triangle to the nearest tenth.


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