

$$1. -2\frac{1}{4} \div 1\frac{1}{6}$$

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

$$3. 4\frac{1}{3} - 2\frac{1}{2}$$

$$4. \frac{h}{2} = -14$$

$$5. 7d - 3 = 32$$

$$6. 10 - \frac{2}{3}p = 52$$

$$7. -\frac{2}{3}m - 4 = 10$$

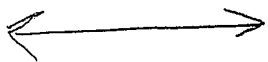
$$8. 13 = \frac{9}{3} + 4$$

$$9. 3 - 8c = 35$$

Solve and graph the inequalities.

$$i. h + 3 > 12$$

$$ii. 2y - 7 \geq 15$$



Simplify the following monomials.

12. $9^3 \times 9^2 =$

13. $-3x^2(4x^5) =$

14. $\frac{5^7}{5^4} =$

15. $\frac{2^5 \cdot 3^5 \cdot 5^2}{2^2 \cdot 3^4 \cdot 5}$ (what is the final value)

Use the following data for 16-22.

6, 7, 7, 8, 9, 11, 12, 12, 12, 14, 14, 16

16. What is the mean? _____

17. What is the median? _____

18. What is the mode? _____

19. What is the range? _____

20. What is the upper quartile (UQ)? _____

lower quartile (LQ)? _____

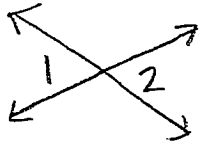
21. What is the interquartile range (IQR)? _____

22. Is there an outlier? Yes No

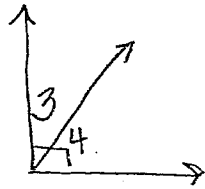
23. Classify an angle of 95° ? _____

60° ? _____

24. What are angles 1 and 2?

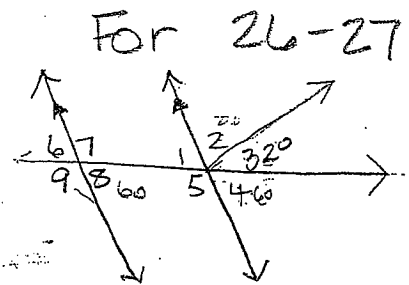


25. What type of angle does angles 3 & 4 create?



26. If $m\angle 9 = 120^\circ$, what is $m\angle 8$

27. What is $m\angle 4$ if $m\angle 2 = 88^\circ$?



28. Find the circumference and area of the circle. Round to the nearest tenth.

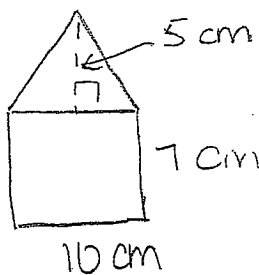


$$A = \pi r^2$$

Use 3.14 for π .

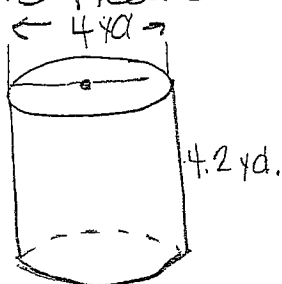
$$C = 2\pi r \text{ OR } \pi d$$

29.



Find the area of the figure.

30. Find the volume of the cylinder. Round to the nearest tenth.

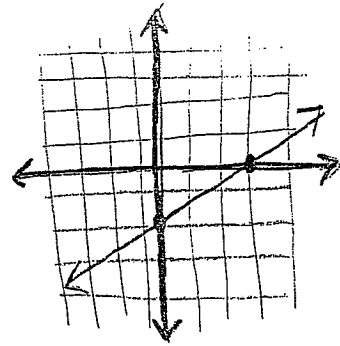


$$V = \pi r^2 h \quad \text{Use 3.14 for } \pi.$$

31. Find the surface area of the cylinder in # 30

$$S.A. = L.A. + 2\pi r^2 \quad (L.A. = 2\pi r h) \text{ OR } 2\pi r h + 2\pi r^2$$

32. Which function is graphed.
Write in slope-intercept form.



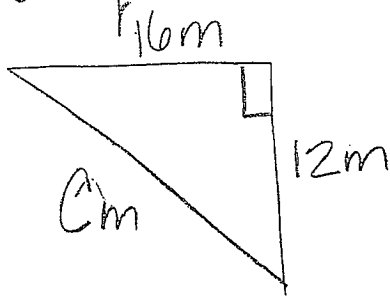
33. What is the constant rate of change?

x	-3	-1	1	3
y	7	4	1	-2

34. What is the slope of the points: (2, 4) and (1, -1)?

35. What are the slope and y-intercept for the graph of $y + 9x = -6$?

36. Write an equation and solve for the missing length.



37. Tell whether the scatter plots are positive, negative, or no relationship.

