

Unit 1 Review

- 1. Which of the following isn't similar to output?

 A y-values

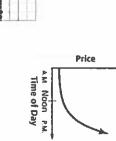
 B Domain

 - C Both A & B D range
- $\frac{\mathbf{9}}{\mathbf{2}}$. Find the solution of x + 4 = 7 if the replacement set is $\{1, 2, 3, 4, 5\}$.

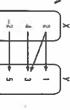
D 2

- 3. A car rental company charges a rental fee of \$20 per day in addition to a charge of \$0.30 per mile driven. How much does it cost to rent a car for a day and drive it 25 miles?

 F \$45,30 G \$20,30 H \$27,50 J \$26,00
- 4. Which statement best describes the graph of the price of one share of a company's stock shown below? A The price increased more in the morning than in the afternoon.
- B The price decreased more in the morning than in the afternoon.
- C The price increased more in the afternoon than in the morning
- D The price decreased more in the afternoon than in the morning



- 5. What is the domain of the relation? $F \{-1, 0, 1, 3\}$ $G \{-2, 0, 1, 3\}$ J
- H (-2, -1, 0, 1, 2, 3) J (0, 1, 2, 3)
- 6. Determine which relation is a function.



8

4	×	
-1	3	
2	4	
ω	4	
4	5	

C $y = \frac{1}{5}x + 2$

- **D** {(3, 0), (-2, -2), (7, -2), (-2, 0)}
- 7. If $h(r) = \frac{2}{3}r 6$, what is the value of h(-9)?

- H-62
- J-12

For Questions 8 and 9, use the graph.

8. Interpret the y-intercept of the graph.

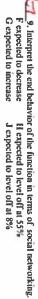
B About 8% of those polled used a social networking site in February 2005. A All those polled used a social networking site 8 months after February 2005.

Used Social Networking (percent of policif)

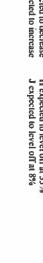
Social Networking

C No one used a social networking site in February 2005.

D There were 8 social networking sites in February 2005.



12 24 36 cs Months Since February 2005



10. Write an expression from the sentence: The sum of the square of a number and 34.

12. Solve
$$\frac{m+2}{5}-7=1$$

8

3. Translate the following sentence into an equation. Twice a number m minus three equals the sum of m and five

$$A \ 2(m-3) = m+5$$

B 2m-3=m+5

$$C 2m - 3 = 5m$$

D 2(m-3) = 5m

14. Solve
$$\frac{3}{5}x = 15$$
.

15. Evaluate
$$\begin{vmatrix} 2b-5 \end{vmatrix} + 1 \text{ if } b = 1$$
.

16. Solve
$$5(g-2) + g = 6(g-4)$$
.

F all numbers G 0

17. Solve ax - 5 = b for a. b - 5 Ax(b+5) $B = \frac{b-5}{x}$ $C = \frac{b+5}{x}$ Dx(b-5)

Questions I have regarding.....
The main focus of this section is.....

1.1 Variables and Expressions

1.8 Interpreting Graphs of Functions

18.In Death Valley, California, the highest ground temperature recorded was 94°C on July 15, 1972. In the formula $C = \frac{5}{9}(F - 32)$, C represents the temperature in degrees Celsius and F represents the temperature in degrees Fahrenheit. To the nearest degree, what is the highest ground temperature in Death Valley in Fahrenheit?

G 84°F

H 34°F

J 137°F

1.2 Order of Operations 2.1 Writing Equations

19. A container company wants to make a cylindrical can with a volume of 1188 cubic inches. The formula $V = \pi r^2 h$ represents the volume of a cylinder. In this formula, V represents the volume, r represents the radius of the cylinder's base, and h represents the height of the cylinder. Solve for h. What height should the company make the can if the radius of the base must be 6 inches?

2.4 Solving Equations with Variables on Each Side

2.3 Solving Multi-Step Equations

.5 Equations

1.6 Relations

2.8 Ligral Equations

1.7 Functions

20. Translate the following equation into a verbal sentence. 3(x+y)=2y-x

Through times the sucht x plus y is equal to two
times y decreased by x.

21. Which of the following graphs is non-continuous?

