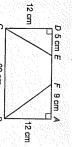
- 1. A deck of 26 alphabet cards drawn. What is the probability that and U. One card is drawn and not both cards are vowels? including the vowels A, E, I, O, replaced and then a second card is contains one card for every letter
- 2. Alex figured she saved \$12 buying much did she pay for the item? the item at a 30% discount. How
- 3. Which of the following is not a characteristic of a graph displaying direct variation?
- A. The graph is a line or aligned
- B. The graph aligns with the origin.
- The slope of the graph is positive.
- D. The graph lies in the 2nd and 4th quadrants.
- **4.** If an image on a computer screen ris increased 50%, then its area increases by what percent?

figure to answer questions 5 and 6. Figure ABCD is a rectangle. Refer to this



5. What are the lengths of CE, EF, and FB?

6. What is the area of trapezoid BCEF?

7. A formula for this sequence is $\dot{a}_n = n^2 - 2$. What is the twelfth term of the sequence? $-1, 2, 7, 14, \dots$

erri 4010 1010 adis

8. How much money is $66\frac{2}{3}\%$ of 836.00?

e, Ty ours 3401 3301 3500 341



10. What is the lateral surface area of

300 300 300 900 900

- 11. Sketch the graph of the equation $(2x)^{(2x)} 2x + 3y = 6$.

1000 3000

- **12.** Solve this equation for x: ax + b = c
- **13.** Solve and graph on a number line: $^{(7)}$ 3 x < 4
- 14. Convert 30 gallons per hour to multipliers. Show your work. quarts per minute using two unit

For questions 9 and 10, refer to the

cylinder.



16. $\frac{2}{3}x - \frac{2}{3}$ ω|--||

ωΝ

 $17. \frac{4x^2y^{-1}x}{6x^4y^2}$ expression.

For questions 17-20, simplify the

18. $3x^2 + 2x - x^2 - x$

19. $(-2) - (-2)^2$

20. 2√3 · √6

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15. x - 0.5x = 1.2

