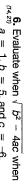
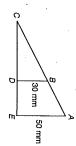
5. What is the slant height of the cone in question 4?



2. Triangles *ACE* and *BCD* are similar. segment *CB* is 54 mm. How long is

segment CA?



7. The dimensions of a cube are enlarged cube is how many times doubled. The volume of the

a = 1, b = 5, and c = -6.

the volume of the original cube?

For questions 8 and 9, refer to this rectangle.

3. An item regularly priced at \$49.95

was marked down to \$39.95.

Estimate the percent of discount.



8. Write an expression for the perimeter of this rectangle.

4. The height of the cone is 12 cm. What is its volume?



9. Write an expression for the area of this rectangle.

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Saxon Math Course 3

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10. Which of the following is a subset of the set of whole numbers?

A. {rational numbers}

B. {real numbers}

C. {integers}

D. {counting numbers}

11. Graph on a number line: $-3 < x \le 2$

12. Solve:
$$x^2 + 1 = 50$$

13. Graph these equations to find the solution to both equations. one pair of x and y values that is a

$$\begin{cases} y = x - 1 \\ y = -x + 3 \end{cases}$$

14. Derrick ran 400 meters in 1 minute (60 sec). Convert Derrick's average speed to kilometers per hour.

> 15. Two number cubes are rolled at the that both number cubes will show same time. What is the probability

16. How much money is $6\frac{2}{3}\%$ of ⁸⁴ \$24.00?

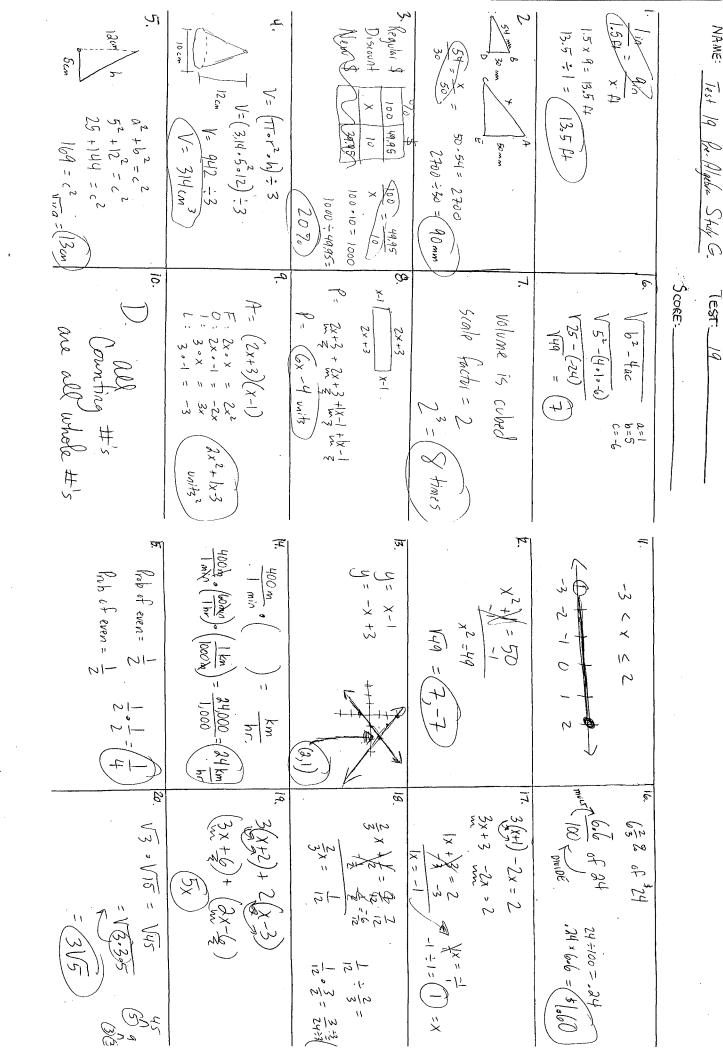
For questions 17 and 18, solve for x. 17. 3(x + 1) - 2x = 2

$$18. \frac{2}{3}x + \frac{1}{2} = \frac{7}{12}$$

expression. For questions 19 and 20, simplify the

19.
$$3(x+2) + 2(x-3)$$

20. √3 · √15



NAME:

[EST: