

Entrance to Grade 11 - Mathematics for Work and Everyday Life (MEL3E)

Scrap paper is available but write your final solution clearly in the space provided

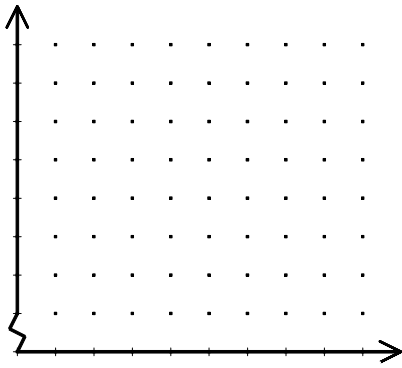
1. A rectangular prism is 11 cm long, 11 cm wide, and 12 cm high. Find the surface area of the prism.
2. The average cost of a computer has decreased since 1978. The following table gives the average computer cost, to the nearest five hundred dollars, for selected years.

Year	Average Computer Cost (\$)
1978	5000
1982	2500
1986	2000
1990	1000

- a) Plot these points on a graph.
 - b) Connect the points using line segments.
 - c) Determine the average yearly decrease in cost between 1978 and 1982.
 - d) Determine the average yearly decrease in cost between 1982 and 1986.
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3. Evaluate $a - b$ for $a = 5.7$ and $b = -4.4$.
 4. Express the unit rate in the units shown.
 - a) 7 cans of punch for \$4.83; ¢/can
 - b) \$61.65 for 8 h of work; \$/h
 - c) 76 h of sunshine in 8 days; h/day
 - d) \$10.75 for 18.7 L of gas; ¢/L

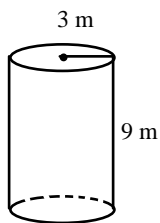
5. The table shows the study times and test scores for a number of students. Draw a scatter plot of score versus time.

Study Time (min)	6	11	15	18	21	24	31	34
Test Score	58	62	59	62	66	70	69	69

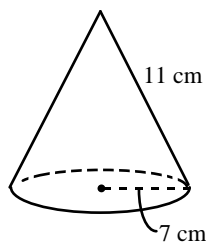


6. Calculate each surface area, to the nearest square unit.

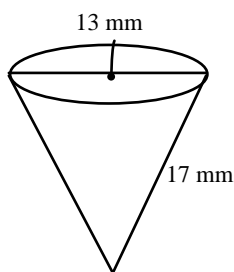
a)



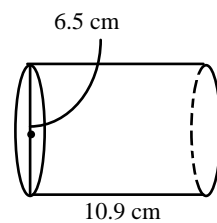
b)



c)



d)



7. Write two ratios equivalent to 4:6.

8. If $\frac{10}{4}$, $-\frac{18}{8}$, $\frac{9}{6}$, and $-\frac{17}{2}$ were placed in order from greatest to least, which would be first?

[A] $\frac{9}{6}$

[B] $-\frac{17}{2}$

[C] $-\frac{18}{8}$

[D] $\frac{10}{4}$