

Year 7 Weekly Tutorial - 23

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1. Simplify.

a) $-7 - 3(12 \div 4 - 5)$

b) $5^2 - 4^2(3^2 \times 2 - 13)$

2. Simplify.

a) $2\frac{1}{7} - 1\frac{2}{5} \times 1\frac{3}{7}$

b) $3\frac{2}{5} + 2\frac{1}{3} \div \frac{5}{9}$

3. Expand and Simplify.

a) $5(3x - 2) + 7x$

b) $3(a - b) - (2a + b)$

4. Simplify.

a) $3^2 \times 5^3 \times 3^0 \times 5^{-2}$

b) $\frac{7^3 \times 4^2 \times 7^{-1}}{7 \times 4^3}$

5. Solve.

a) $12 - 5(x + 2) = 25 - 4x$

b) $\frac{3x+4}{2} = x + 3$

6. Solve.

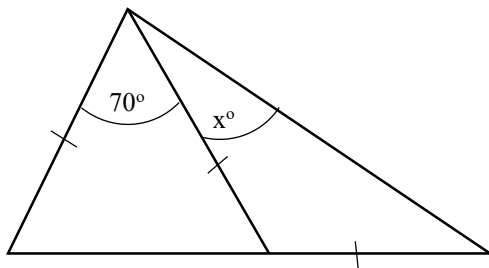
a) $3(x - 1) > 2x - 1$

b) $\frac{2}{3}(x + 7) \leq x + 1$

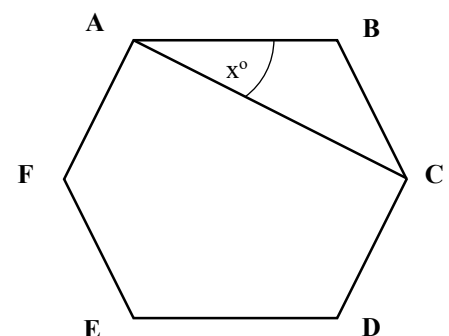
7. An interior angle of a regular polygon is 160° . Find the sum of interior angles of the regular polygon.

8. Find the unknown angles.

a)

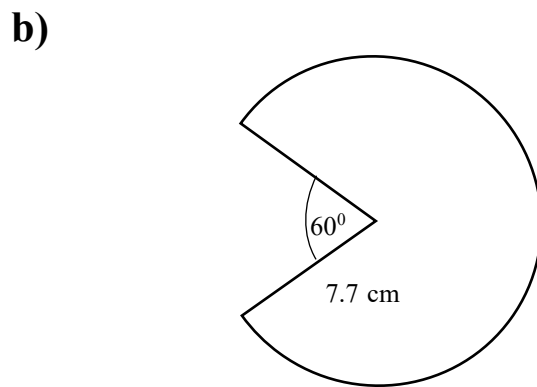
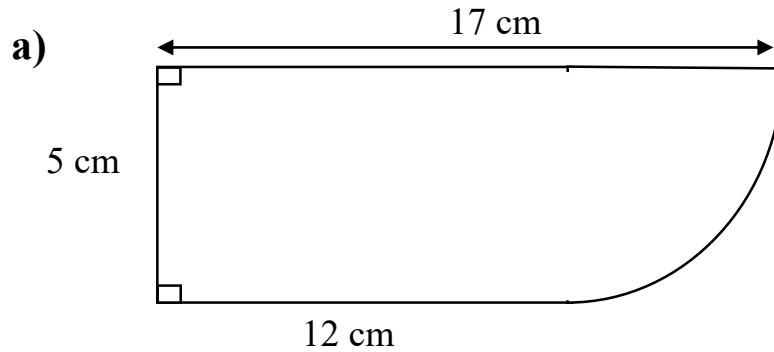


b)



ABCDEF is a regular hexagon. Find x° .

9. Draw the straight line, $y = 2 - 3x$ in the interval, $-1 \leq x \leq 1$.
10. HCF and LCM of whole numbers x and 120 are 24 and 840 respectively. Find x .
11. Find the area of the following shapes.



12.

10.3	12.5	11.7
11.9	10.1	13.2
15.3	12.3	10.1
12.9	13.3	14.2

- a) Draw a stem and leaf diagram for the data set.
- b) Find the median of the data.
- c) Find the average.
- d) Find the range.

13. Frequency table below shows the data about favorite drinks of some people in a sport club.

Favorite Drink	Tea	Coffee	Other
Frequency	18	27	15

- 14.** The table shows some information about the favorite sport of some students.

Sport	Frequency	Angle
Football	55	
Cricket	34	
Tennis	22	
Rugby	09	

- a)** Draw a pie chart to show the information.
- b)** A student is selected at random. Find the probability their favorite sport is tennis or rugby.