

3.1/3.2 Solving one step equations

Name: KEY

I. Solve the equation:

1) $-5 = x - 4$
 $+4 \quad +4$

$-1 = x$

2) $12x = 132$
 $\frac{12}{12} \quad \frac{12}{12}$

$x = 11$

3) $\frac{3}{4} = x + \frac{1}{2}$
 $\frac{1}{2} \quad -\frac{1}{2}$

$x = \frac{1}{4}$

4) $x - (-9) = -9$

$x + 9 = -9$

$x = -18$

5) $|-11| = -2 + x$

$11 = -2 + x$

$13 = x$

6) $12.6 = x - 7.5$
 $+7.5 \quad +7.5$

$20.1 = x$

7) $-36x = -9$

$x = \frac{1}{4}$

8) $25 = \frac{x}{-4}$

$-100 = x$

9) $\frac{3}{5} \cdot -15 = \frac{5}{3}x \cdot \frac{3}{5}$

$-9 = x$

10) $-\frac{2}{3}x = \frac{8}{21}$
 $\frac{-2}{3} \quad \frac{-2}{3}$

$x = -\frac{4}{7}$

II. Write and solve an equation to answer the question:

- 11) About $\frac{2}{5}$ of students participate in sports and drama. In what size school would you expect to find 330 students in sports and drama?

$\frac{2}{5}s = 330$

$\frac{2}{5}s = 330$

$s = 825$ students

- 12) You purchased 8 copies of a poster and paid \$79.60. How much did each poster cost?

$8p = 79.60$
 $p = 9.95$

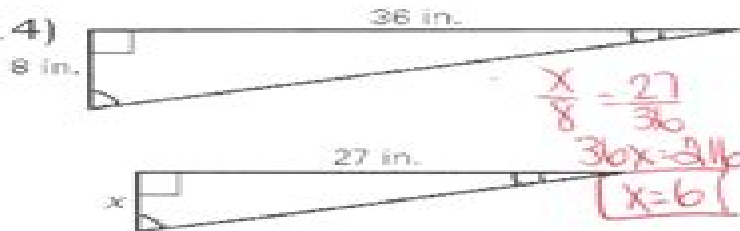
II. Find the length of the side marked x.

- 13) The perimeter is 30 feet.



$30 = 5 + 12 + x$
 $30 = 17 + x$
 $13 = x$

- 14)



$\frac{x}{8} = \frac{27}{36}$

$36x = 216$

$x = 6$

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Hussin A.Rothana



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web 1 a single stage double acting air compressor of 150kW power takes air in at 16 bar delivers at 6 bar the compression follows the law $pV^{1.35} = \text{const}$ c the compressor runs at 160rpm with average piston speed of 150 m/min determine the size of the cylinder given data power $P = 150 \text{ kW}$ piston speed $2 \ln 150 \text{ m/min}$

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web compressor capacity is volume of compressed air flow upon a particular given time and is expressed in m^3/hour or l/min various compressor types vary in capacity to specify particular application of compressor equipment amount of inlet air

consumed upon a particular given time prior to compression is also considered a unit capacity

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web numerical simulation of a centrifugal compressor ijera journal in this paper the tip clearance effects on flow field of a low speed centrifugal compressor without and with partial shroud ps fitted on to the rotor blade tip at three values of tip clearance viz 2 2 5 1 and 7 9 of rotor blade height at the exit at three flow