

# Practice Final

The answers

1. Evaluate:

(a)  $-13 + 24 = 11$

(b)  $6 - (-11) = 17$

(c)  $8(-9) = -72$

(d)  $42 \div (-6) = -7$

(e)  $-7^2 = -49$

2. Evaluate:

(a)  $456,302 - 276,543 = 179,759$

(b)  $15,477 \div 67 = 231$

3. Evaluate:

(a)  $\frac{4}{9} + \frac{7}{12} = \frac{37}{36} = 1\frac{1}{36}$

(b)  $\frac{15}{8} \div \frac{25}{12} = \frac{9}{10}$

4. Evaluate and give your answer as a mixed number:

(a)  $6\frac{2}{3} - 4\frac{4}{5} = 1\frac{13}{15}$

(b)  $7\frac{3}{4} \times 2\frac{3}{5} = 20\frac{3}{20}$

5. Find the average of the numbers 35.31, 64.20 and 210.89. Round your answer to 2 decimal places.  $103.47$

6. Solve the equation:  $-4x = -20$ .  $x = 5$

7. Solve the equation:  $3x - 15 = 10$ .  $x = \frac{25}{3} = 8\frac{1}{3}$

8. Evaluate  $2x^2 - 5x + 7$  when  $x = -3$ .  $40$

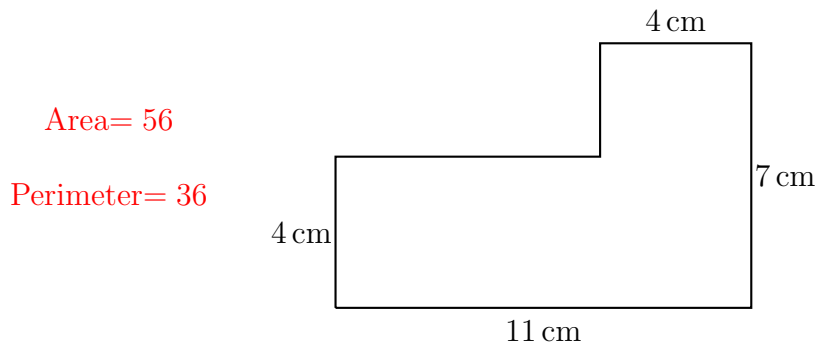
9. 60% of a number is 42. What is the number? If necessary round your answers to one decimal place.  $70$

10. Solve the proportion for  $x$ :  $\frac{x}{12} = \frac{7}{15}$   $x = \frac{28}{5} = 5\frac{3}{5}$

11. A 102 mile trip requires 6 gallons of gasoline. How much gasoline will be needed for a 253 mile trip? Give your answer as a decimal.  $14\frac{15}{17}$

12. Given that  $F = \frac{5}{3}(G - 35)$ , find  $F$  if  $G = 10$ .  $41\frac{2}{3}$

13. Find the perimeter and the area of the figure below.



14. Evaluate:  $7 - 8(2 - 4) = 23$ .

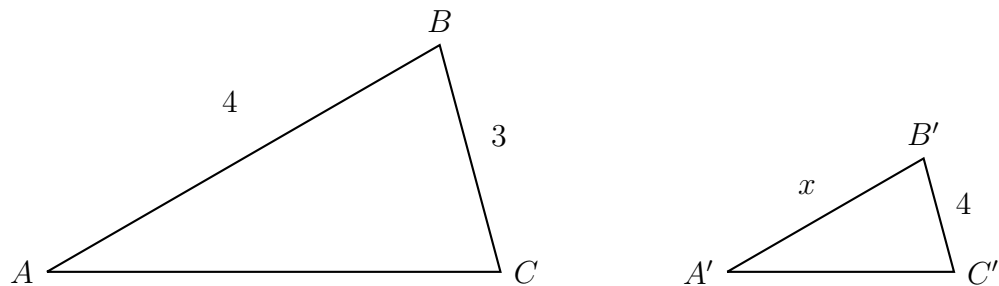
15. Evaluate:

(a)  $5.6 \times 7.52 = 42.112$

(b)  $21.34 \div 0.25 = 85.36$

16. Express .674 as a percent.  $67.4\%$

17. Given that  $\triangle ABC$  is similar to  $\triangle A'B'C'$ , find  $x$ .  $x = 5\frac{1}{3}$



18. In a class of 25 students, 22 pass the final exam. What percentage pass the final exam?  
 $88\%$

19. Put the fractions in order from smallest to greatest:  $\frac{3}{8}, \frac{7}{12}, \frac{5}{6}$ .  $\frac{3}{8}, \frac{7}{12}, \frac{5}{6}$

20. A jacket that originally costs \$270 goes on sale at 20% off. What is the sale price?  
 $\$216$ .