Answers must be clearly **legible**, **simplified** and **boxed** or **circled**. If possible, write answer as an **exact** integer or fraction otherwise use **two** decimal accuracy. **Units** required.
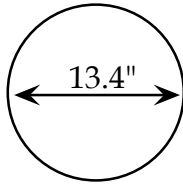
Order of Operations:

1)   (a) $22 - 2\cdot(8 - 6)\cdot4 - 2 =$

(b) $\dfrac{36 + 12}{4(3 + 1)} =$
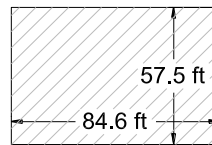
2a) Convert to Decimal: $19\% = $ _____

2b) Convert to %-format: $0.73 = $ _____
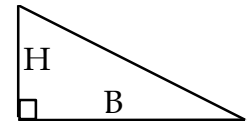
3)   Find the **circumference**:

13.4"

$C =$

4)   Find the **Area**:

57.5 ft

84.6 ft

$A =$

5)   What is the area of this triangle? B = 62.8 ft, H = 31.4 ft.

H

B

6)   Solve for x: $\dfrac{5}{16} = \dfrac{12}{x}$ Give your answer as a fraction.

7)   Simplify and give your answer as a reduced fraction: $\dfrac{3}{4} + \dfrac{1}{3} - \dfrac{5}{12} =$

8)   Simplify and give your answer as a mixed number: $\dfrac{8\,\frac{3}{8}}{2\,\frac{3}{4}} =$

9)   What is the average speed (mph) if a car travels 265 miles in 5.25 hrs?

10) Use your calculator to simplify to a single number in decimal format: $\dfrac{2.4\cdot(2.6 + 1.4 \times 4.5)}{2.8 \times 1.5 + 4.1} =$

Answers must be clearly **legible**, **simplified** and **boxed** or **circled**.

Order of Operations with Integers: Write answer as an **exact** integer or fraction.

1) $-7(6 + (-11)) =$

2) $12 - [\,4(-2) + 6\,]12 - 6 =$

3) $12 - 5^2 \cdot (-4 + 1)\cdot 8 - 3^2 =$

4) $\dfrac{-8(-4) + 16}{8(-3) - 24} =$

5) $\dfrac{12(-4) + 16 - 8(-4)}{8(3 + 2)} =$

6) $\dfrac{24 + 16}{8(-6) + 16(3)} =$

7) $\left|7 - 2(-9 + 15)\right|12 - 9 =$

8) $\dfrac{\left|-7 - 8\right|\cdot 4 - 10}{3 - 2\cdot (5 - 1)\; - 3} =$

Order of Operations with Real numbers: Write answer as a single decimal with **two** decimal accuracy.

9) $\dfrac{12\,\frac{5}{8} - 1\,\frac{7}{8}}{1.3 \times 2.1} =$

10) $\dfrac{1.1^{50}}{(2.1 - 6.4)(5.8 + 9.8)} =$

BONUS Write answers as a mixed number.

$1 + \dfrac{1}{1 + \dfrac{1}{1 + \dfrac{1}{1 + \dfrac{1}{1 + 1}}}} =$

$\dfrac{\sqrt{\dfrac{4\,\frac{1}{2} - 1\,\frac{3}{8}}{12\,\frac{1}{3} - 7\,\frac{5}{8}}}}{\dfrac{6\,\frac{3}{4}}{2\,\frac{5}{8}}} =$