

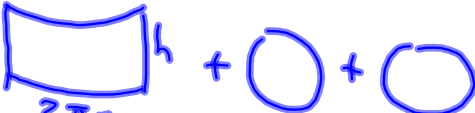


Evaluate

$$1. \quad \frac{4}{5} - \frac{1}{2} + \frac{2}{3} = \frac{24}{30} - \frac{15}{30} + \frac{20}{30}$$
$$= \frac{29}{30}$$

$$2. \quad \frac{1}{2} - 3\left(\frac{4}{7} \div \frac{2}{3}\right) = \frac{1}{2} - 3\left(\frac{4}{7} \times \frac{3}{2}\right)$$
$$= \frac{1}{2} - 3\left(\frac{6}{7}\right)$$
$$= \frac{1}{2} - \frac{18}{7}$$
$$= \frac{7}{14} - \frac{36}{14}$$
$$= -\frac{29}{14}$$
$$= -2\frac{1}{14}$$

# Problems with the homework...

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10.  $A = 2\pi r^2 + 2\pi rh$   +  + 

$$\begin{aligned} &= 2\pi(3.5)^2 + 2\pi(3.5)(11.5) \\ &\approx 24.5\pi + 80.5\pi \\ &= 105\pi \\ &\approx 329.87 \text{ cm}^2 \end{aligned}$$

$$11. a) C = \frac{F - 32}{1.8}$$

$$i) C = \frac{0 - 32}{1.8} \\ = -17.\bar{7}$$

$$ii) C = \frac{-40 - 32}{1.8} \\ = -\frac{72}{1.8} \\ = 40$$

$$b) C = \frac{5}{9}(F - 32)$$

$$i) C = \frac{5}{9}(50 - 32) \\ = \frac{5}{9}(18) \\ = 10$$

first formula  
seems easier

$$\begin{aligned} \underline{9.} \quad C &= 1.15 [21.95d + 0.035(k-120)] \\ &= 1.15 [21.95(4) + 0.035(2400-120)] \\ &= 1.15 [87.80 + 0.035(2280)] \\ &= 1.15 [87.80 + 79.80] \\ &= 1.15 (167.60) \\ &= \$192.74 \end{aligned}$$

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$$\begin{aligned} \text{c) } \frac{0.67 - 4.2 \div (-0.2)}{(-7.3 + 8.6)^2} &= \frac{0.67 + 21}{(1.3)^2} \\ &= \frac{21.67}{1.69} \\ &= 12.8 \end{aligned}$$

$$\begin{aligned} \text{d) } \frac{8.9 \times (-3.1 + 22.7)^2 + 4.7}{-9.6 \div 0.04 - 0.4} &= \frac{8.9 \times 19.6^2 + 4.7}{-240 - 0.4} \\ &= \frac{8.9 \times 384.16 + 4.7}{-240.4} \\ &= \frac{3419.024 + 4.7}{-240.4} \\ &= \frac{3423.724}{-240.4} \\ &= -14.24178 \end{aligned}$$

# Homework

Complete chapter 3 puzzle

Work on review exercise p. 144