

# Warm up

September 17

Calculate

$$\begin{aligned} 1. & (-2.3) - 3(-8.9 + 7)^2 \\ &= -2.3 - 3(-1.9)^2 \\ &= -2.3 - 3(3.61) \\ &= -2.3 - 10.83 \\ &= 13.13 \end{aligned}$$

$$\begin{aligned} 2. & \left[ \frac{2}{3} \div \frac{1}{8} \times \frac{7}{4} \left( \frac{1}{3} + \frac{3}{2} \right) \right]^2 \\ & \left[ \frac{2}{3} \div \frac{1}{8} \times \frac{7}{4} \left( \frac{2}{6} + \frac{9}{6} \right) \right]^2 \\ & \left[ \frac{2}{3} \times \frac{8}{1} \times \frac{7}{4} \times \frac{11}{6} \right]^2 \dots \frac{1232}{72} \\ & \left( \frac{154}{9} \right)^2 \\ &= \frac{23716}{81} \end{aligned}$$

# Problems with the homework...

$$4.b) -\frac{5}{4} \div \left(-\frac{1}{4} + \frac{3}{2}\right) \left(-\frac{1}{4} + \frac{3}{2}\right)$$

$$-\frac{5}{4} \div \left(-\frac{1}{4} + \frac{6}{4}\right) \left(-\frac{1}{4} + \frac{6}{4}\right)$$

$$= -\frac{5}{4} \div \left(\frac{5}{4}\right) \left(\frac{5}{4}\right)$$

$$= \frac{-5}{4} \times \frac{4}{5} \times \frac{5}{4}$$

$$= \frac{1}{4} \frac{5}{5}$$

$$7. a) \left(-\frac{2}{3}\right) \div \frac{1}{4} + \frac{1}{2} \times \frac{1}{2} \times \frac{1}{3}$$

$$= -\frac{2}{3} \times \frac{4}{1} + \frac{1}{2} \times \frac{1}{2} \times \frac{1}{3}$$

$$= -\frac{8}{3} + \frac{1}{12}$$

$$= -\frac{32}{12} + \frac{1}{12}$$

$$= -\frac{31}{12} \text{ or } -2\frac{7}{12}$$

$$7. d) \left(-\frac{2}{3}\right) \div \left[\frac{1}{4} + \left(-\frac{1}{2}\right) \times \frac{1}{3}\right]$$

$$-\frac{2}{3} \div \left(\frac{1}{4} + \frac{-1}{6}\right)$$

$$-\frac{2}{3} \div \left(\frac{3}{12} - \frac{2}{12}\right)$$

$$-\frac{2}{3} \div \frac{1}{12}$$

$$= -\frac{2}{3} \times \frac{12}{1}$$

$$= -8$$

Name



Sept 17

Evaluate

$$\begin{aligned}\frac{1}{2} + \left(-\frac{\cancel{3}}{4}\right) \times \frac{1}{\cancel{3}} &= \frac{1}{2} + -\frac{1}{4} \\ &= \frac{2}{4} - \frac{1}{4} \\ &= \frac{1}{4}\end{aligned}$$

Name



Period 4

Sept 17

Evaluate

$$\begin{aligned}\frac{6}{5} \times \left(-\frac{2}{3} + \frac{8}{3}\right)^2 - \frac{5}{12} &= \frac{6}{5} \times \left(\frac{6}{3}\right)^2 - \frac{5}{12} \\ &= \frac{6}{5} \times 2^2 - \frac{5}{12} \\ &= \frac{6}{5} \times \frac{4}{1} - \frac{5}{12} \\ &= \frac{24}{5} - \frac{5}{12} \\ &= \frac{288}{60} - \frac{25}{60} \\ &= \frac{263}{60} \\ &= 4 \frac{23}{60}\end{aligned}$$

reduce  
before  
multiplying

$$\frac{3}{\cancel{7}} \times \frac{\cancel{2}}{6} \times \frac{\cancel{3}}{4} \times \frac{\cancel{3}}{\cancel{3}} = \frac{3}{1} \times \frac{1}{6} \times \frac{3}{4} \times \frac{1}{1}$$

$$= \frac{9}{2}$$

$$= \frac{2268}{504}$$

reduce  
after  
multiplying

$$\begin{aligned} &= \frac{1134}{252} \\ &= \frac{567}{126} \\ &= \frac{81}{18} \\ &= \frac{9}{2} \end{aligned}$$

Same answer

## Homework

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8 Remember to write out the right solutions show all work

9

10

11 a(i, ii, iii) b(i, ii, iii) c

12

13

17

18