

p. 129

Sept 18

24.

$$\begin{aligned} & \left(-\frac{2}{\sqrt{2}} \right)^2 \\ &= \left(-\frac{2}{\sqrt{2}} \right) \left(-\frac{2}{\sqrt{2}} \right) \\ &= \frac{4}{2} \end{aligned}$$

25.

$$\begin{aligned} & - \left(\frac{1}{2} \right)^4 \\ &= - \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \\ &= - \frac{1}{16} \end{aligned}$$

$$30. (\$0.90)(400)$$

= \$360 was the change in value

25.

$$\frac{2}{1} - \frac{2}{7} = \frac{2}{1} \times \frac{7-14}{2} = 7$$

$$26. \quad -\frac{7}{8} \div \left(-\frac{1}{4}\right)$$

$$= -\frac{7}{8} \times -\frac{4}{1}$$

$$= \frac{28}{8} = \frac{7}{2}$$

P. 137 Adding + Subtracting Rational Numbers

$$\begin{aligned} 4. \quad & 1\frac{1}{3} + 2\frac{3}{4} \\ &= \frac{4\cancel{\times 4}}{3\cancel{\times 4}} + \frac{11\cancel{\times 3}}{4\cancel{\times 3}} \\ &= \frac{16}{12} + \frac{33}{12} \end{aligned} \quad \Bigg] = \frac{49}{12}$$

$$5. \quad -\frac{1}{2} + 3\frac{1}{8}$$

$$= -\frac{3 \times 4}{2 \times 4} + \frac{25}{8}$$

$$= -\frac{12}{8} + \frac{25}{8}$$

$$= \frac{13}{8}$$

$$7, 20, 26, 32, 37$$

p141 BEDMAS Order of Operations

Brackets

Exponents

Division

Multiplication

Addition

Subtraction

$$\begin{aligned} 2. \quad & 18 + 6 \div 2 \\ & = 18 + 3 \\ & = 21 \end{aligned}$$

3.

P. 141

5 6

$$4. \frac{(18+6)}{(5+1)} - 4$$

$$= \frac{24}{6} - 4$$

$$= 4 - 4$$

$$= 0$$

$$11. (0.75 + 0.25)^3 \div 0.2$$

$$= 1^3 \div 0.2$$

$$= 1 \div 0.2$$

$$= 5$$

$$2. 2 \left(\frac{1}{4} + \frac{1}{5} + \frac{1}{6} \right)^3$$

$$= 2 \left(\frac{1}{4} + \frac{2}{4} + \frac{1}{6} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) = \frac{5}{8}$$

$$= 2 \left(\frac{1}{4} + \frac{1}{4} \right) \frac{1}{8}$$

$$\frac{1}{8} \left(\frac{2}{1} \right) \left(\frac{1}{4} \right) \frac{1}{8}$$

$$= \frac{2}{4} \frac{1}{8}$$

$$= \frac{1}{8} \frac{1}{8}$$

$$= \frac{5}{8}$$

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p. 132 }

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p. 141

$$\frac{+6}{10} - \frac{9}{10}$$

$$-\frac{5}{6} - 2\frac{1}{4}$$

$$= -\frac{5 \times 2}{6 \times 2} - \frac{9 \times 3}{4 \times 3} \text{ numerator}$$

denominator

$$= -\frac{10}{12} - \frac{27}{12} = -\frac{37}{12}$$