

Addition:

Multiplication:

Subtraction:

Division:

Perform each operation specified and reduce your answer to simplest terms.

$$1.\frac{2}{3.4} + \frac{3}{4} \cdot \frac{3}{3}$$

$$= \frac{8}{12} + \frac{9}{12}$$

$$= \frac{17}{12}$$

$$3.\frac{2}{3} \cdot \frac{3}{4} = \frac{1}{2}$$

$$2.\frac{2}{3.\sqrt{4}} \cdot 3$$

$$= \frac{8}{12} - \frac{9}{12}$$

$$= -\frac{1}{2}$$

$$4.\frac{2}{3} \cdot \frac{3}{4}$$

$$= \frac{2}{3} \cdot \frac{4}{3} = \frac{8}{9}$$

$$5. -\frac{1^{\frac{2}{3}}}{6^{\frac{2}{12}}}$$

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

$$= -\frac{5}{12}$$

$$6. \left(\frac{2}{3}\right)^{2}$$

$$= \frac{2}{3} \cdot \frac{2}{3}$$

$$= \frac{4}{9}$$

7.
$$-\frac{7}{8} \div \frac{1}{4}$$

$$-\frac{7}{4} \cdot \frac{1}{1} = -\frac{7}{2}$$

$$8. \frac{\cancel{9} \cancel{4} \cancel{2}}{\cancel{16} \cancel{3} \cancel{5}} = \frac{3}{10}$$

10.
$$-2\frac{3}{8} + \frac{11}{6}$$

$$-\frac{19 \cdot 3}{8 \cdot 3} + \frac{11 \cdot 4}{6 \cdot 4}$$

$$-\frac{57}{24} + \frac{44}{24} = -\frac{13}{24}$$
12. $1\frac{1}{2} \div (-3)$

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

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

13. Jamie walks $\frac{3}{4}$ of a mile to get on the bus and then $\frac{2}{5}$ of a mile from the bus stop to the store. To go to the store and back home, how many miles does Jamie walk? Show all of your steps and write your answer in a complete sentence.

$$\frac{3}{4} + \frac{3}{4} + \frac{2}{5} + \frac{2}{5}$$

$$= \frac{6.5}{4.5} + \frac{4.4}{5.4}$$

$$= \frac{30}{20} + \frac{16}{20} = \frac{46}{20} = \frac{23}{10} = 2\frac{3}{10}$$
 miles

14. Carlos is making Polvorones, which are Mexican Wedding Cookies. The recipe calls for $1\frac{1}{4}$ cups of butter. If

the recipe makes five dozen cookies, how much butter is in one cookie? (Bonus if you can convert the answer to tablespoons or teaspoons.) $5 \times 12 = 60$ 60

There is
$$\frac{1}{48}$$
 c. in one cookie in each workie

$$4T \text{ in } \frac{1}{4}C$$

$$\frac{1}{16}C = 1T$$

$$\frac{1}{48} = \frac{1}{16}$$

$$\frac{1}{48} = \frac{1}{16}$$

$$\frac{1}{48} = \frac{1}{7} = \frac{1}{3}$$

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