Apprenticeship Math 12

WORKSHEET: Fraction Review

Show your work! Final answers should be fractions in lowest terms.

1. Change each improper fraction to a mixed number.

a)
$$\frac{17}{4} =$$

b)
$$\frac{75}{8} =$$

c)
$$\frac{7}{2} =$$

d)
$$\frac{35}{16} =$$

2. Change each mixed number to an improper fraction.

a)
$$3\frac{5}{8} =$$

b)
$$1\frac{7}{8} =$$

c)
$$2\frac{3}{16} =$$

d)
$$5\frac{1}{2} =$$

3. Evaluate. Give your answers as mixed numbers, if applicable, in lowest terms. Show your work.

a)
$$\frac{3}{4} + \frac{5}{16} =$$

b)
$$\frac{7}{8} - \frac{1}{2} =$$

c)
$$2\frac{5}{8} + \frac{1}{16} =$$

d)
$$1\frac{3}{8} - \frac{1}{16} =$$

e)
$$3\frac{5}{16} + 2\frac{1}{4} =$$

f)
$$4\frac{3}{4} - \frac{5}{8} =$$

4. Evaluate. Give your answers as mixed numbers, if applicable, in lowest terms. Show your work.

a)
$$\frac{1}{16} \times 4 =$$

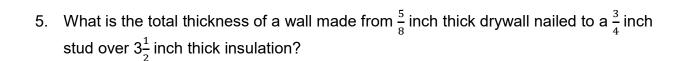
b)
$$5\frac{1}{2} \div 4 =$$

c)
$$\frac{5}{8} \times \frac{3}{4} =$$

d)
$$\frac{15}{16} \div \frac{5}{8} =$$

e)
$$2\frac{7}{8} \times \frac{1}{4} =$$

f)
$$3\frac{3}{4} \div \frac{5}{8} =$$



6. A mechanic checking the alignment on a car finds that two wheels are $72\frac{1}{2}$ inches apart and the other two are $71\frac{3}{8}$ inches apart. What is the difference between the two measurements?

7. Wilhelmina, a seamstress is sewing bridesmaid's dresses. She orders the fabric from the US, where fabric is measured in yards. Each dress requires $3\frac{3}{4}$ yards of silk, $1\frac{1}{2}$ yards of lace fabric, and $7\frac{1}{4}$ yards of trim. How much of each type of material does Wilhelmina need to make 5 dresses?

8. Bernard is buying some lumber to finish a project. He needs three pieces of 2 by 4 that are each $4\frac{1}{2}$ feet long, and ten pieces that are each $5\frac{1}{4}$ feet long. What length of 2 by 4 does he need in total?

9. Caden is a baker. He cuts each $14\frac{1}{2}$ inch roll of dough into $1\frac{1}{2}$ inch slices for cinnamon buns. How many cinnamon buns can he make from one roll of dough?

10. How many $8\frac{1}{8}$ inch lengths can Nathan cut from a 25 inch pipe?

1. a)
$$4\frac{1}{4}$$
 b) $9\frac{3}{8}$ c) $3\frac{1}{2}$ d) $2\frac{1}{16}$
2. a) $\frac{29}{8}$ b) $\frac{15}{8}$ c) $\frac{35}{16}$ d) $1\frac{1}{2}$ e) $5\frac{9}{16}$ f) $4\frac{1}{2}$
3. a) $1\frac{1}{16}$ b) $1\frac{3}{8}$ c) $2\frac{11}{16}$ d) $1\frac{5}{2}$ e) $5\frac{9}{16}$ f) $4\frac{1}{2}$
4. a) $\frac{1}{4}$ b) $1\frac{3}{8}$ c) $2\frac{11}{16}$ d) $1\frac{5}{2}$ e) $5\frac{9}{16}$ f) $4\frac{1}{8}$
5. 4 $\frac{7}{8}$ inches
6. $1\frac{8}{8}$ inches
8. 66 feet
9. 9 cinnamon buns $(9\frac{2}{3})$
10. 3 full lengths $(3\frac{1}{13})$