

9-1-2021

Mathematics

Home work

1 Change the following improper fraction to mixed number.

(a) $\frac{56}{8}$

(b) $\frac{56}{7}$

(c) $\frac{39}{6}$

(d) $\frac{75}{7}$

(e) $\frac{14}{3}$

Answers

(a) $7\frac{1}{8}$

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

(c) ~~$6\frac{3}{6}$~~ $6\frac{3}{2}$

(d) $10\frac{6}{7}$

(e) $4\frac{2}{3}$

2 Reduce the following fraction to their lowest term

(a) $\frac{9}{12}$

(b) $\frac{26}{25}$

(c) $\frac{24}{56}$

(d) $\frac{80}{100}$

(e) $\frac{30}{12}$

Answer

a $\frac{9 \div 3}{12 \div 3} = \frac{3}{4}$

b $\frac{26}{25}$

c $\frac{24 \div 8}{56 \div 8} = \frac{3}{7}$

d $\frac{80 \div 2}{100 \div 2} = \frac{40 \div 2}{50 \div 2} = \frac{20 \div 5}{25 \div 5} = \frac{4}{5}$

e $\frac{30 \div 6}{12 \div 6} = \frac{5}{2}$

3 solve the follow following

- (a) $\frac{3}{8} + \frac{5}{8}$
- (b) $\frac{8}{9} - \frac{2}{3}$
- (c) $\frac{3}{4} + \frac{7}{12}$
- (d) $\frac{4}{5} + \frac{3}{5}$
- (e) $\frac{13}{15} - \frac{8}{15}$

Answer

- (a) $\frac{8}{8}$
- (b) $\frac{8 \times 2}{9 \times 2} - \frac{2 \times 6}{3 \times 6} = \frac{16}{18} - \frac{12}{18} = \frac{4}{18}$
- (c) $\frac{3 \times 6}{4 \times 6} + \frac{7 \times 2}{12 \times 2} = \frac{18}{24} + \frac{14}{24} = \frac{32}{24}$
- (d) $\frac{7}{5}$
- (e) $\frac{5}{15}$