



Factors and fractions

WORKSHEET#1



1. Answer the questions.

I Which fraction below is equal to $1/3$?

- a) $5/9$
- b) $6/9$
- c) $2/6$
- d) $3/9$

III Which fraction below is equal to $4/3$?

- a) $20/15$
- b) $3/4$
- c) $8/9$
- d) $16/12$

II Which fraction below is not equal to $2/7$?

- a) $4/14$
- b) $8/21$
- c) $6/21$
- d) $12/42$

IV Which fraction below is not equal to $5/2$?

- a) $15/6$
- b) $45/18$
- c) $35/16$
- d) $25/10$



2. Simplify the following fractions with:

- a) 2
- b) 3
- c) 6

$$\frac{6}{12}$$

$$\frac{18}{42}$$

$$\frac{24}{36}$$

$$\frac{54}{30}$$

$$\frac{144}{162}$$

$$\frac{96}{66}$$

$$\frac{48}{84}$$

$$\frac{72}{108}$$

$$\frac{126}{156}$$



3. Simplify the fractions.

a) $\frac{8}{32}$

e) $\frac{21}{14}$

i) $\frac{27}{18}$

b) $\frac{15}{105}$

f) $\frac{34}{16}$

j) $\frac{8}{12}$

c) $\frac{49}{35}$

g) $\frac{6}{15}$

d) $\frac{33}{55}$

h) $\frac{28}{24}$



1.

I c and d

II b

III a and d

IV c

2.

a)

$$\frac{6}{12} = \frac{3}{6}; \quad \frac{18}{42} = \frac{9}{21}; \quad \frac{24}{36} = \frac{12}{18}; \quad \frac{54}{30} = \frac{27}{15}; \quad \frac{144}{162} = \frac{72}{81}; \quad \frac{96}{66} = \frac{48}{33}$$

$$\frac{48}{84} = \frac{24}{42}; \quad \frac{72}{108} = \frac{36}{54}; \quad \frac{126}{156} = \frac{63}{78}.$$

b)

$$\frac{6}{12} = \frac{2}{4}; \quad \frac{18}{42} = \frac{6}{14}; \quad \frac{24}{36} = \frac{8}{12}; \quad \frac{54}{30} = \frac{18}{10}; \quad \frac{144}{162} = \frac{48}{54}; \quad \frac{96}{66} = \frac{32}{22}$$

$$\frac{48}{84} = \frac{16}{28}; \quad \frac{72}{108} = \frac{24}{36}; \quad \frac{126}{156} = \frac{42}{26}.$$

c)

$$\frac{6}{12} = \frac{1}{2}; \quad \frac{18}{42} = \frac{3}{7}; \quad \frac{24}{36} = \frac{4}{6}; \quad \frac{54}{30} = \frac{9}{5}; \quad \frac{144}{162} = \frac{24}{27}; \quad \frac{96}{66} = \frac{16}{11}$$

$$\frac{48}{84} = \frac{28}{14}; \quad \frac{72}{108} = \frac{12}{18}; \quad \frac{126}{156} = \frac{21}{26}.$$

3.

a) $\frac{8}{32} = \frac{1}{4}$

e) $\frac{21}{14} = \frac{3}{2}$

i) $\frac{27}{18} = \frac{3}{2}$

b) $\frac{15}{105} = \frac{1}{7}$

f) $\frac{34}{16} = \frac{17}{8}$

j) $\frac{8}{12} = \frac{2}{3}$

c) $\frac{49}{35} = \frac{7}{5}$

g) $\frac{6}{15} = \frac{2}{5}$

d) $\frac{33}{55} = \frac{3}{5}$

h) $\frac{28}{24} = \frac{7}{6}$