

Reducing Fractions

1. Reduce each fraction to lowest terms.

a) $\frac{60}{15}$

b) $\frac{120}{30}$

c) $\frac{72}{32}$

d) $\frac{33}{121}$

e) $-\frac{64}{24}$

f) $\frac{108}{72}$

g) $\frac{121}{44}$

h) $-\frac{132}{144}$

i) $\frac{90}{305}$

2. Reduce each fraction to lowest terms.

$$a) \frac{5x}{10x}$$

$$b) \frac{3ab^2}{12ab^3}$$

$$c) \frac{5x^2y^3}{25x^4y}$$

$$d) \frac{x^2y^7z^{10}}{7x^4y^3z^{12}}$$

$$e) \frac{32a^8b^3}{100a^5b^7c^4}$$

$$f) \frac{60x^3y^8z^5}{18x^5y^5z^5}$$

Reducing Fractions

1. Reduce each fraction to lowest terms.

$$a) \frac{60/3}{15/3}$$

$$\frac{20}{5}$$

$$\boxed{4}$$

$$b) \frac{120/10}{30/10}$$

$$\frac{12}{3}$$

$$\boxed{4}$$

$$c) \frac{72/2}{32/2}$$

$$\frac{36/2}{16/2}$$

$$\frac{18/2}{8/2}$$

$$\boxed{\frac{9}{4}}$$

$$d) \frac{33/11}{12/11}$$

$$\boxed{\frac{3}{11}}$$

$$e) - \frac{64/8}{24/8}$$

$$\boxed{-\frac{8}{3}}$$

$$f) \frac{108/2}{72/2}$$

$$\frac{54/2}{36/2}$$

$$\frac{9/2}{6/2}$$

$$\boxed{\frac{3}{2}}$$

$$g) \frac{121/11}{44/11}$$

$$\boxed{\frac{11}{4}}$$

$$h) - \frac{132/12}{144/12}$$

$$\boxed{-\frac{11}{12}}$$

$$i) \frac{90/5}{305/5}$$

$$\boxed{\frac{18}{61}}$$

2. Reduce each fraction to lowest terms.

$$a) \frac{5x^1}{10x^1}$$

$$\frac{5/5}{10/5}$$

$$\boxed{\frac{1}{2}}$$

$$b) \frac{3ab^2}{12ab^3}$$

$$\frac{3/3}{12/3} = \frac{1}{4b}$$

$$\boxed{\frac{1}{4b}}$$

$$c) \frac{5x^2y^3}{25x^4y}$$

$$\frac{5/5 y^2}{25/5 x^2} = \frac{y^2}{5x^2}$$

$$\boxed{\frac{y^2}{5x^2}}$$

$$d) \frac{x^2y^4z^{10}}{7x^4y^3z^{12}}$$

$$\boxed{\frac{y^4}{7x^2z^2}}$$

$$e) \frac{32a^3b^3}{100a^5b^7c^4}$$

$$\frac{32a^3}{100b^4c^4}$$

$$\frac{16a^3}{50b^4c^4}$$

$$\boxed{\frac{8a^3}{25b^4c^4}}$$

$$f) \frac{60x^3y^8z^5}{18x^5y^5z^5}$$

$$\frac{60y^3}{18x^2}$$

$$\frac{30y^3}{9x^2}$$

$$\boxed{\frac{10y^3}{3x^2}}$$