

1. Solve for "x" in each equation:

a) $\frac{x}{4} = \frac{24}{8}$

b) $\frac{x}{6} = \frac{28}{24}$

c) $\frac{x}{6} = \frac{-30}{-30}$

d) $\frac{x}{3} = \frac{-15}{-9}$

e) $\frac{x}{8} = \frac{45}{40}$

f) $\frac{x}{10} = \frac{100}{100}$

g) $\frac{x}{5} = \frac{110}{55}$

h) $\frac{x}{9} = \frac{-27}{-27}$

i) $\frac{x}{13} = \frac{-76}{52}$

j) $\frac{x}{13} = \frac{140}{130}$

k) $\frac{x}{12} = \frac{-56}{-84}$

l) $\frac{x}{13} = \frac{-64}{-104}$

m) $\frac{x}{24} = \frac{14}{168}$

n) $\frac{x}{20} = \frac{18}{60}$

o) $\frac{x}{19} = \frac{-132}{-209}$

p) $\frac{x}{18} = \frac{-30}{-54}$

q) $\frac{x}{12} = \frac{-50}{120}$

r) $\frac{x}{22} = \frac{-30}{66}$

s) $\frac{x}{21} = \frac{110}{-231}$

t) $\frac{x}{18} = \frac{72}{-108}$

2. Solve for "x" in each equation:

a) $\frac{2}{x} = \frac{4}{8}$

b) $\frac{2}{x} = \frac{4}{6}$

c) $\frac{6}{x} = \frac{12}{-16}$

d) $\frac{5}{x} = \frac{10}{4}$

e) $\frac{10}{x} = \frac{60}{36}$

f) $\frac{10}{x} = \frac{60}{30}$

g) $\frac{5}{x} = \frac{30}{54}$

h) $\frac{10}{x} = \frac{60}{-42}$

i) $\frac{14}{x} = \frac{42}{-21}$

j) $\frac{8}{x} = \frac{48}{42}$

k) $\frac{12}{x} = \frac{60}{5}$

l) $\frac{8}{x} = \frac{48}{-36}$

m) $\frac{15}{x} = \frac{-60}{80}$

n) $\frac{12}{x} = \frac{-96}{-72}$

o) $\frac{18}{x} = \frac{-126}{-21}$

p) $\frac{10}{x} = \frac{-70}{-14}$

q) $\frac{-6}{x} = \frac{30}{45}$

r) $\frac{-10}{x} = \frac{80}{-64}$

s) $\frac{-15}{x} = \frac{120}{0}$

t) $\frac{-7}{x} = \frac{42}{36}$

Answers

1a 12 **1e** 9 **1i** -19 **1m** 2 **1q** -5
1b 7 **1f** 10 **1j** 14 **1n** 6 **1r** -10
1c 6 **1g** 10 **1k** 8 **1o** 12 **1s** -10
1d 5 **1h** 9 **1l** 8 **1p** 10 **1t** -12

2a 4 **2e** 6 **2i** -7 **2m** -20 **2q** -9
2b 3 **2f** 5 **2j** 7 **2n** 9 **2r** 8
2c -8 **2g** 9 **2k** 1 **2o** 3 **2s** 0
2d 2 **2h** -7 **2l** -6 **2p** 2 **2t** -6

1. Solve for "x" in each equation:

a) $\frac{x}{8} = \frac{24}{16}$

b) $\frac{x}{8} = \frac{27}{24}$

c) $\frac{x}{9} = \frac{-32}{-36}$

d) $\frac{x}{3} = \frac{-15}{-9}$

e) $\frac{x}{8} = \frac{68}{32}$

f) $\frac{x}{10} = \frac{80}{50}$

g) $\frac{x}{5} = \frac{99}{55}$

h) $\frac{x}{5} = \frac{-136}{-40}$

i) $\frac{x}{11} = \frac{77}{121}$

j) $\frac{x}{10} = \frac{42}{60}$

k) $\frac{x}{8} = \frac{33}{-24}$

l) $\frac{x}{12} = \frac{-60}{-60}$

m) $\frac{x}{12} = \frac{-78}{156}$

n) $\frac{x}{18} = \frac{-21}{126}$

o) $\frac{x}{20} = \frac{-143}{-220}$

p) $\frac{x}{22} = \frac{0}{-44}$

q) $\frac{x}{22} = \frac{-12}{132}$

r) $\frac{x}{22} = \frac{-85}{110}$

s) $\frac{x}{11} = \frac{80}{-88}$

t) $\frac{x}{18} = \frac{-75}{-90}$

2. Solve for "x" in each equation:

a) $\frac{5}{x} = \frac{10}{22}$

b) $\frac{5}{x} = \frac{20}{24}$

c) $\frac{4}{x} = \frac{8}{-10}$

d) $\frac{5}{x} = \frac{10}{22}$

e) $\frac{6}{x} = \frac{42}{-119}$

f) $\frac{8}{x} = \frac{48}{12}$

g) $\frac{9}{x} = \frac{54}{12}$

h) $\frac{7}{x} = \frac{35}{-45}$

i) $\frac{14}{x} = \frac{98}{-42}$

j) $\frac{12}{x} = \frac{48}{28}$

k) $\frac{14}{x} = \frac{70}{10}$

l) $\frac{14}{x} = \frac{70}{-25}$

m) $\frac{11}{x} = \frac{-55}{60}$

n) $\frac{16}{x} = \frac{-64}{-16}$

o) $\frac{20}{x} = \frac{-80}{-8}$

p) $\frac{12}{x} = \frac{-84}{-42}$

q) $\frac{-15}{x} = \frac{120}{72}$

r) $\frac{-13}{x} = \frac{78}{-24}$

s) $\frac{-13}{x} = \frac{39}{9}$

t) $\frac{-13}{x} = \frac{91}{70}$

Answers

1a 12 1e 17 1i 7 1m -6 1q -2
 1b 9 1f 16 1j 7 1n -3 1r -17
 1c 8 1g 9 1k -11 1o 13 1s -10
 1d 5 1h 17 1l 12 1p 0 1t 15

2a 11 2e -17 2i -6 2m -12 2q -9
 2b 6 2f 2 2j 7 2n 4 2r 4
 2c -5 2g 2 2k 2 2o 2 2s -3
 2d 11 2h -9 2l -5 2p 6 2t -10

1. Solve for "x" in each equation:

a) $\frac{x}{8} = \frac{36}{24}$

b) $\frac{x}{9} = \frac{36}{27}$

c) $\frac{x}{3} = \frac{-15}{-9}$

d) $\frac{x}{6} = \frac{-60}{-36}$

e) $\frac{x}{10} = \frac{72}{40}$

f) $\frac{x}{8} = \frac{119}{56}$

g) $\frac{x}{8} = \frac{130}{80}$

h) $\frac{x}{10} = \frac{-108}{-60}$

i) $\frac{x}{9} = \frac{-144}{81}$

j) $\frac{x}{14} = \frac{11}{154}$

k) $\frac{x}{15} = \frac{60}{-90}$

l) $\frac{x}{12} = \frac{80}{-48}$

m) $\frac{x}{12} = \frac{18}{72}$

n) $\frac{x}{24} = \frac{90}{144}$

o) $\frac{x}{16} = \frac{108}{-144}$

p) $\frac{x}{24} = \frac{77}{-168}$

q) $\frac{x}{18} = \frac{75}{90}$

r) $\frac{x}{24} = \frac{-60}{120}$

s) $\frac{x}{15} = \frac{-187}{-165}$

t) $\frac{x}{18} = \frac{15}{-90}$

2. Solve for "x" in each equation:

a) $\frac{5}{x} = \frac{20}{48}$

b) $\frac{6}{x} = \frac{18}{9}$

c) $\frac{6}{x} = \frac{18}{-24}$

d) $\frac{2}{x} = \frac{8}{36}$

e) $\frac{8}{x} = \frac{56}{-105}$

f) $\frac{8}{x} = \frac{48}{18}$

g) $\frac{8}{x} = \frac{48}{48}$

h) $\frac{8}{x} = \frac{40}{-25}$

i) $\frac{11}{x} = \frac{66}{-18}$

j) $\frac{13}{x} = \frac{78}{18}$

k) $\frac{14}{x} = \frac{84}{-6}$

l) $\frac{10}{x} = \frac{30}{3}$

m) $\frac{18}{x} = \frac{-90}{30}$

n) $\frac{20}{x} = \frac{-140}{-77}$

o) $\frac{16}{x} = \frac{-96}{-24}$

p) $\frac{20}{x} = \frac{-120}{-72}$

q) $\frac{-6}{x} = \frac{54}{27}$

r) $\frac{-9}{x} = \frac{54}{-66}$

s) $\frac{-15}{x} = \frac{135}{-9}$

t) $\frac{-7}{x} = \frac{84}{12}$

Answers

1a 12 **1e** 18 **1i** -16 **1m** 3 **1q** 15
1b 12 **1f** 17 **1j** 1 **1n** 15 **1r** -12
1c 5 **1g** 13 **1k** -10 **1o** -12 **1s** 17
1d 10 **1h** 18 **1l** -20 **1p** -11 **1t** -3

2a 12 **2e** -15 **2i** -3 **2m** -6 **2q** -3
2b 3 **2f** 3 **2j** 3 **2n** 11 **2r** 11
2c -8 **2g** 8 **2k** -1 **2o** 4 **2s** 1
2d 9 **2h** -5 **2l** 1 **2p** 12 **2t** -1

1. Solve for "x" in each equation:

a) $\frac{x}{9} = \frac{48}{36}$

b) $\frac{x}{7} = \frac{16}{28}$

c) $\frac{x}{4} = \frac{-18}{-12}$

d) $\frac{x}{8} = \frac{-24}{-16}$

e) $\frac{x}{9} = \frac{144}{72}$

f) $\frac{x}{8} = \frac{27}{24}$

g) $\frac{x}{9} = \frac{66}{99}$

h) $\frac{x}{8} = \frac{-28}{-16}$

i) $\frac{x}{14} = \frac{36}{168}$

j) $\frac{x}{12} = \frac{120}{144}$

k) $\frac{x}{16} = \frac{45}{-48}$

l) $\frac{x}{16} = \frac{8}{-128}$

m) $\frac{x}{14} = \frac{-99}{126}$

n) $\frac{x}{18} = \frac{68}{72}$

o) $\frac{x}{13} = \frac{-133}{-91}$

p) $\frac{x}{24} = \frac{30}{-48}$

q) $\frac{x}{24} = \frac{-18}{144}$

r) $\frac{x}{20} = \frac{-90}{100}$

s) $\frac{x}{14} = \frac{60}{-84}$

t) $\frac{x}{22} = \frac{49}{-154}$

2. Solve for "x" in each equation:

a) $\frac{3}{x} = \frac{6}{-40}$

b) $\frac{3}{x} = \frac{15}{45}$

c) $\frac{6}{x} = \frac{12}{-24}$

d) $\frac{6}{x} = \frac{24}{40}$

e) $\frac{9}{x} = \frac{36}{28}$

f) $\frac{8}{x} = \frac{24}{36}$

g) $\frac{5}{x} = \frac{15}{21}$

h) $\frac{5}{x} = \frac{25}{-15}$

i) $\frac{14}{x} = \frac{98}{-112}$

j) $\frac{9}{x} = \frac{63}{77}$

k) $\frac{13}{x} = \frac{52}{-36}$

l) $\frac{14}{x} = \frac{98}{-56}$

m) $\frac{20}{x} = \frac{-140}{56}$

n) $\frac{10}{x} = \frac{-40}{-32}$

o) $\frac{18}{x} = \frac{-126}{-63}$

p) $\frac{18}{x} = \frac{-90}{-60}$

q) $\frac{-14}{x} = \frac{84}{96}$

r) $\frac{-10}{x} = \frac{60}{-66}$

s) $\frac{-11}{x} = \frac{99}{108}$

t) $\frac{-6}{x} = \frac{66}{77}$

Answers

1a	12	1e	18	1i	3	1m	-11	1q	-3	2a	-20	2e	7	2i	-16	2m	-8	2q	-16
1b	4	1f	9	1j	10	1n	17	1r	-18	2b	9	2f	12	2j	11	2n	8	2r	11
1c	6	1g	6	1k	-15	1o	19	1s	-10	2c	-12	2g	7	2k	-9	2o	9	2s	-12
1d	12	1h	14	1l	-1	1p	-15	1t	-7	2d	10	2h	-3	2l	-8	2p	12	2t	-7