

Rewriting Formulas (A)

Solve for u in terms of the other variables.

1. $uc = v$

5. $\frac{a}{u} = v$

9. $3u = v$

2. $y = -6u$

6. $\frac{b}{u} = c$

10. $uy = a$

3. $\frac{y}{u} = a$

7. $\frac{u}{z} = y$

11. $v = \frac{y}{u}$

4. $2 = \frac{u}{v}$

8. $-3u = z$

12. $uy = -10$

Rewriting Formulas (A) Answers

Solve for u in terms of the other variables.

$$1. \begin{aligned} uc &= y \\ u &= \frac{y}{c} \end{aligned}$$

$$5. \begin{aligned} \frac{a}{u} &= v \\ u &= \frac{a}{v} \end{aligned}$$

$$9. \begin{aligned} 3u &= v \\ u &= \frac{v}{3} \end{aligned}$$

$$2. \begin{aligned} y &= -6u \\ u &= -\frac{y}{6} \end{aligned}$$

$$6. \begin{aligned} \frac{b}{u} &= c \\ u &= \frac{b}{c} \end{aligned}$$

$$10. \begin{aligned} uy &= a \\ u &= \frac{a}{y} \end{aligned}$$

$$3. \begin{aligned} \frac{y}{u} &= a \\ u &= \frac{y}{a} \end{aligned}$$

$$7. \begin{aligned} \frac{u}{z} &= y \\ u &= yz \end{aligned}$$

$$11. \begin{aligned} v &= \frac{y}{u} \\ u &= \frac{y}{v} \end{aligned}$$

$$4. \begin{aligned} 2 &= \frac{u}{v} \\ u &= 2v \end{aligned}$$

$$8. \begin{aligned} -3u &= z \\ u &= -\frac{z}{3} \end{aligned}$$

$$12. \begin{aligned} uy &= -10 \\ u &= -\frac{10}{y} \end{aligned}$$

Rewriting Formulas (B)

Solve for z in terms of the other variables.

1. $zv = u$

5. $-3 = zx$

9. $zc = 5$

2. $za = -6$

6. $u = \frac{x}{z}$

10. $-4z = u$

3. $\frac{b}{z} = y$

7. $y = \frac{7}{z}$

11. $-3z = b$

4. $7 = \frac{z}{x}$

8. $\frac{z}{a} = y$

12. $\frac{z}{b} = x$

Rewriting Formulas (B) Answers

Solve for z in terms of the other variables.

$$1. \begin{aligned} zv &= u \\ z &= \frac{u}{v} \end{aligned}$$

$$5. \begin{aligned} -3 &= zx \\ z &= -\frac{3}{x} \end{aligned}$$

$$9. \begin{aligned} zc &= 5 \\ z &= \frac{5}{c} \end{aligned}$$

$$2. \begin{aligned} za &= -6 \\ z &= -\frac{6}{a} \end{aligned}$$

$$6. \begin{aligned} u &= \frac{x}{z} \\ z &= \frac{x}{u} \end{aligned}$$

$$10. \begin{aligned} -4z &= u \\ z &= -\frac{u}{4} \end{aligned}$$

$$3. \begin{aligned} \frac{b}{z} &= y \\ z &= \frac{b}{y} \end{aligned}$$

$$7. \begin{aligned} y &= \frac{7}{z} \\ z &= \frac{7}{y} \end{aligned}$$

$$11. \begin{aligned} -3z &= b \\ z &= -\frac{b}{3} \end{aligned}$$

$$4. \begin{aligned} 7 &= \frac{z}{x} \\ z &= 7x \end{aligned}$$

$$8. \begin{aligned} \frac{z}{a} &= y \\ z &= ya \end{aligned}$$

$$12. \begin{aligned} \frac{z}{b} &= x \\ z &= xb \end{aligned}$$

Rewriting Formulas (C)

Solve for z in terms of the other variables.

1. $y = za$

5. $zx = v$

9. $x = zy$

2. $v = zb$

6. $x = zu$

10. $\frac{z}{b} = v$

3. $zx = b$

7. $\frac{v}{z} = a$

11. $zy = x$

4. $zv = 9$

8. $4z = a$

12. $\frac{c}{z} = y$

Rewriting Formulas (C) Answers

Solve for z in terms of the other variables.

$$1. \begin{aligned} y &= za \\ z &= \frac{y}{a} \end{aligned}$$

$$5. \begin{aligned} zx &= v \\ z &= \frac{v}{x} \end{aligned}$$

$$9. \begin{aligned} x &= zy \\ z &= \frac{x}{y} \end{aligned}$$

$$2. \begin{aligned} v &= zb \\ z &= \frac{v}{b} \end{aligned}$$

$$6. \begin{aligned} x &= zu \\ z &= \frac{x}{u} \end{aligned}$$

$$10. \begin{aligned} \frac{z}{b} &= v \\ z &= vb \end{aligned}$$

$$3. \begin{aligned} zx &= b \\ z &= \frac{b}{x} \end{aligned}$$

$$7. \begin{aligned} \frac{v}{z} &= a \\ z &= \frac{v}{a} \end{aligned}$$

$$11. \begin{aligned} zy &= x \\ z &= \frac{x}{y} \end{aligned}$$

$$4. \begin{aligned} zv &= 9 \\ z &= \frac{9}{v} \end{aligned}$$

$$8. \begin{aligned} 4z &= a \\ z &= \frac{a}{4} \end{aligned}$$

$$12. \begin{aligned} \frac{c}{z} &= y \\ z &= \frac{c}{y} \end{aligned}$$

Rewriting Formulas (D)

Solve for a in terms of the other variables.

1. $ab = z$

5. $z = ax$

9. $y = \frac{u}{a}$

2. $\frac{7}{a} = y$

6. $\frac{4}{a} = x$

10. $\frac{a}{x} = c$

3. $x = \frac{b}{a}$

7. $ax = u$

11. $6a = u$

4. $ay = -8$

8. $\frac{a}{v} = z$

12. $y = 8a$

Rewriting Formulas (D) Answers

Solve for a in terms of the other variables.

$$1. \quad ab = z \\ a = \frac{z}{b}$$

$$5. \quad z = ax \\ a = \frac{z}{x}$$

$$9. \quad y = \frac{u}{a} \\ a = \frac{u}{y}$$

$$2. \quad \frac{7}{a} = y \\ a = \frac{7}{y}$$

$$6. \quad \frac{4}{a} = x \\ a = \frac{4}{x}$$

$$10. \quad \frac{a}{x} = c \\ a = cx$$

$$3. \quad x = \frac{b}{a} \\ a = \frac{b}{x}$$

$$7. \quad ax = u \\ a = \frac{u}{x}$$

$$11. \quad 6a = u \\ a = \frac{u}{6}$$

$$4. \quad ay = -8 \\ a = -\frac{8}{y}$$

$$8. \quad \frac{a}{y} = z \\ a = zy$$

$$12. \quad y = 8a \\ a = \frac{y}{8}$$

Rewriting Formulas (E)

Solve for x in terms of the other variables.

1. $xy = b$

5. $\frac{z}{x} = a$

9. $xb = v$

2. $xv = a$

6. $xu = 6$

10. $\frac{5}{x} = b$

3. $xz = 10$

7. $b = \frac{x}{u}$

11. $\frac{1}{x} = v$

4. $2x = y$

8. $\frac{u}{x} = b$

12. $3x = u$

Rewriting Formulas (E) Answers

Solve for x in terms of the other variables.

$$1. \quad xy = b$$
$$x = \frac{b}{y}$$

$$5. \quad \frac{z}{x} = a$$
$$x = \frac{z}{a}$$

$$9. \quad xb = v$$
$$x = \frac{v}{b}$$

$$2. \quad xv = a$$
$$x = \frac{a}{v}$$

$$6. \quad xu = 6$$
$$x = \frac{6}{u}$$

$$10. \quad \frac{5}{x} = b$$
$$x = \frac{5}{b}$$

$$3. \quad xz = 10$$
$$x = \frac{10}{z}$$

$$7. \quad b = \frac{x}{u}$$
$$x = bu$$

$$11. \quad \frac{1}{x} = v$$
$$x = \frac{1}{v}$$

$$4. \quad 2x = y$$
$$x = \frac{y}{2}$$

$$8. \quad \frac{u}{x} = b$$
$$x = \frac{u}{b}$$

$$12. \quad 3x = u$$
$$x = \frac{u}{3}$$

Rewriting Formulas (F)

Solve for y in terms of the other variables.

1. $z = \frac{y}{2}$

5. $1 = yz$

9. $yb = c$

2. $x = \frac{z}{y}$

6. $v = -1y$

10. $yc = v$

3. $9 = \frac{y}{v}$

7. $x = \frac{y}{3}$

11. $\frac{y}{10} = z$

4. $a = \frac{y}{u}$

8. $yz = c$

12. $yb = -7$

Rewriting Formulas (F) Answers

Solve for y in terms of the other variables.

$$1. \begin{aligned} z &= \frac{y}{2} \\ y &= 2z \end{aligned}$$

$$5. \begin{aligned} 1 &= yz \\ y &= \frac{1}{z} \end{aligned}$$

$$9. \begin{aligned} yb &= c \\ y &= \frac{c}{b} \end{aligned}$$

$$2. \begin{aligned} x &= \frac{z}{y} \\ y &= \frac{z}{x} \end{aligned}$$

$$6. \begin{aligned} v &= -1y \\ y &= -\frac{v}{1} \end{aligned}$$

$$10. \begin{aligned} yc &= v \\ y &= \frac{v}{c} \end{aligned}$$

$$3. \begin{aligned} 9 &= \frac{y}{v} \\ y &= 9v \end{aligned}$$

$$7. \begin{aligned} x &= \frac{y}{3} \\ y &= 3x \end{aligned}$$

$$11. \begin{aligned} \frac{y}{10} &= z \\ y &= 10z \end{aligned}$$

$$4. \begin{aligned} a &= \frac{y}{u} \\ y &= au \end{aligned}$$

$$8. \begin{aligned} yz &= c \\ y &= \frac{c}{z} \end{aligned}$$

$$12. \begin{aligned} yb &= -7 \\ y &= -\frac{7}{b} \end{aligned}$$

Rewriting Formulas (G)

Solve for z in terms of the other variables.

1. $\frac{a}{z} = c$

5. $zx = y$

9. $3 = zv$

2. $\frac{6}{z} = a$

6. $x = \frac{u}{z}$

10. $a = \frac{z}{b}$

3. $\frac{z}{y} = x$

7. $zy = a$

11. $zv = b$

4. $\frac{z}{v} = -5$

8. $y = \frac{9}{z}$

12. $a = \frac{c}{z}$

Rewriting Formulas (G) Answers

Solve for z in terms of the other variables.

$$1. \frac{a}{z} = c$$
$$z = \frac{a}{c}$$

$$5. zx = y$$
$$z = \frac{y}{x}$$

$$9. 3 = zv$$
$$z = \frac{3}{v}$$

$$2. \frac{6}{z} = a$$
$$z = \frac{6}{a}$$

$$6. x = \frac{u}{z}$$
$$z = \frac{u}{x}$$

$$10. a = \frac{z}{b}$$
$$z = ab$$

$$3. \frac{z}{y} = x$$
$$z = xy$$

$$7. zy = a$$
$$z = \frac{a}{y}$$

$$11. zv = b$$
$$z = \frac{b}{v}$$

$$4. \frac{z}{v} = -5$$
$$z = -5v$$

$$8. y = \frac{9}{z}$$
$$z = \frac{9}{y}$$

$$12. a = \frac{c}{z}$$
$$z = \frac{c}{a}$$

Rewriting Formulas (H)

Solve for u in terms of the other variables.

1. $uv = b$

5. $\frac{u}{4} = v$

9. $v = -6u$

2. $c = ub$

6. $\frac{x}{u} = b$

10. $uv = 4$

3. $uc = z$

7. $\frac{v}{u} = z$

11. $\frac{u}{b} = x$

4. $7u = c$

8. $uy = 5$

12. $b = uz$

Rewriting Formulas (H) Answers

Solve for u in terms of the other variables.

$$1. uv = b$$
$$u = \frac{b}{v}$$

$$5. \frac{u}{4} = v$$
$$u = 4v$$

$$9. v = -6u$$
$$u = -\frac{v}{6}$$

$$2. c = ub$$
$$u = \frac{c}{b}$$

$$6. \frac{x}{u} = b$$
$$u = \frac{x}{b}$$

$$10. uv = 4$$
$$u = \frac{4}{v}$$

$$3. uc = z$$
$$u = \frac{z}{c}$$

$$7. \frac{v}{u} = z$$
$$u = \frac{v}{z}$$

$$11. \frac{u}{b} = x$$
$$u = xb$$

$$4. 7u = c$$
$$u = \frac{c}{7}$$

$$8. uy = 5$$
$$u = \frac{5}{y}$$

$$12. b = uz$$
$$u = \frac{b}{z}$$

Rewriting Formulas (I)

Solve for b in terms of the other variables.

1. $\frac{7}{b} = x$

5. $\frac{b}{z} = -4$

9. $-\frac{1}{b} = y$

2. $a = bu$

6. $\frac{b}{z} = y$

10. $a = \frac{b}{c}$

3. $\frac{3}{b} = v$

7. $v = \frac{b}{c}$

11. $ba = v$

4. $\frac{b}{y} = -5$

8. $bx = c$

12. $y = \frac{x}{b}$

Rewriting Formulas (I) Answers

Solve for b in terms of the other variables.

$$1. \frac{7}{b} = x$$
$$b = \frac{7}{x}$$

$$5. \frac{b}{z} = -4$$
$$b = -4z$$

$$9. -\frac{1}{b} = y$$
$$b = -\frac{1}{y}$$

$$2. a = bu$$
$$b = \frac{a}{u}$$

$$6. \frac{b}{z} = y$$
$$b = yz$$

$$10. a = \frac{b}{c}$$
$$b = ac$$

$$3. \frac{3}{b} = v$$
$$b = \frac{3}{v}$$

$$7. v = \frac{b}{c}$$
$$b = vc$$

$$11. ba = v$$
$$b = \frac{v}{a}$$

$$4. \frac{b}{y} = -5$$
$$b = -5y$$

$$8. bx = c$$
$$b = \frac{c}{x}$$

$$12. y = \frac{x}{b}$$
$$b = \frac{x}{y}$$

Rewriting Formulas (J)

Solve for b in terms of the other variables.

1. $\frac{c}{b} = 7$

5. $a = -6b$

9. $\frac{b}{a} = z$

2. $a = \frac{b}{3}$

6. $by = u$

10. $bc = a$

3. $bc = z$

7. $bc = v$

11. $y = \frac{v}{b}$

4. $a = bv$

8. $u = \frac{z}{b}$

12. $c = ba$

Rewriting Formulas (J) Answers

Solve for b in terms of the other variables.

$$1. \frac{c}{b} = 7$$
$$b = \frac{c}{7}$$

$$5. a = -6b$$
$$b = -\frac{a}{6}$$

$$9. \frac{b}{a} = z$$
$$b = za$$

$$2. a = \frac{b}{3}$$
$$b = 3a$$

$$6. by = u$$
$$b = \frac{u}{y}$$

$$10. bc = a$$
$$b = \frac{a}{c}$$

$$3. bc = z$$
$$b = \frac{z}{c}$$

$$7. bc = v$$
$$b = \frac{v}{c}$$

$$11. y = \frac{v}{b}$$
$$b = \frac{v}{y}$$

$$4. a = by$$
$$b = \frac{a}{y}$$

$$8. u = \frac{z}{b}$$
$$b = \frac{z}{u}$$

$$12. c = ba$$
$$b = \frac{c}{a}$$