

## 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.

$$1. \begin{aligned} ab &= z \\ a &= \frac{z}{b} \end{aligned}$$

$$5. \begin{aligned} z &= ax \\ a &= \frac{z}{x} \end{aligned}$$

$$9. \begin{aligned} y &= \frac{u}{a} \\ a &= \frac{u}{y} \end{aligned}$$

$$2. \begin{aligned} \frac{7}{a} &= y \\ a &= \frac{7}{y} \end{aligned}$$

$$6. \begin{aligned} \frac{4}{a} &= x \\ a &= \frac{4}{x} \end{aligned}$$

$$10. \begin{aligned} \frac{a}{x} &= c \\ a &= cx \end{aligned}$$

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

$$7. \begin{aligned} ax &= u \\ a &= \frac{u}{x} \end{aligned}$$

$$11. \begin{aligned} 6a &= u \\ a &= \frac{u}{6} \end{aligned}$$

$$4. \begin{aligned} ay &= -8 \\ a &= -\frac{8}{y} \end{aligned}$$

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

$$12. \begin{aligned} y &= 8a \\ a &= \frac{y}{8} \end{aligned}$$

## 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.

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

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

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

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

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

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

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

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

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

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

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

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

## 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.

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

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

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

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

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

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

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

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

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

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

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

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