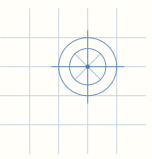


## Rearranging formulas — Two steps



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Rearrange each formula to make the named letter the subject.

①  $A = \frac{1}{2}pq$  for  $p$

$$2A = pq$$
$$\frac{2A}{q} = p$$

②  $A = \frac{1}{2}(a + b)h$  for  $h$

③  $y - k = m(x - h)$  for  $m$

④  $A = \frac{1}{2}bh$  for  $h$

⑤  $P = 2(l + w)$  for  $l$

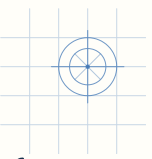
⑥  $S = 2\pi r(r + h)$  for  $h$

⑦  $P = 2l + 2w$  for  $l$

⑧  $K = \frac{1}{2}mv^2$  for  $m$



# Rearranging formulas · Two steps — Answer key



1.  $A = 12pq$  (area of a rhombus), for  $p \rightarrow p = \frac{2Aq}{A}$

2.  $A = 12(a + b)h$  (area of a trapezoid), for  $h \rightarrow h = \frac{2Aa}{A + b}$

3.  $y - k = m(x - h)$  (point-slope form), for  $m \rightarrow m = \frac{y - k}{x - h}$

4.  $A = 12bh$  (area of a triangle), for  $h \rightarrow h = \frac{2Ab}{A}$

5.  $P = 2(l + w)$  (perimeter, factored), for  $l \rightarrow l = \frac{P - 2w}{2}$

6.  $S = 2\pi r(r + h)$  (surface area of a cylinder), for  $h \rightarrow h = \frac{S - 2\pi r}{2\pi r}$

7.  $P = 2l + 2w$  (perimeter of a rectangle), for  $l \rightarrow l = \frac{P - 2w}{2}$

8.  $K = 12mv^2$  (kinetic energy), for  $m \rightarrow m = \frac{Kv^2}{2Kv^2}$