

Mathematics

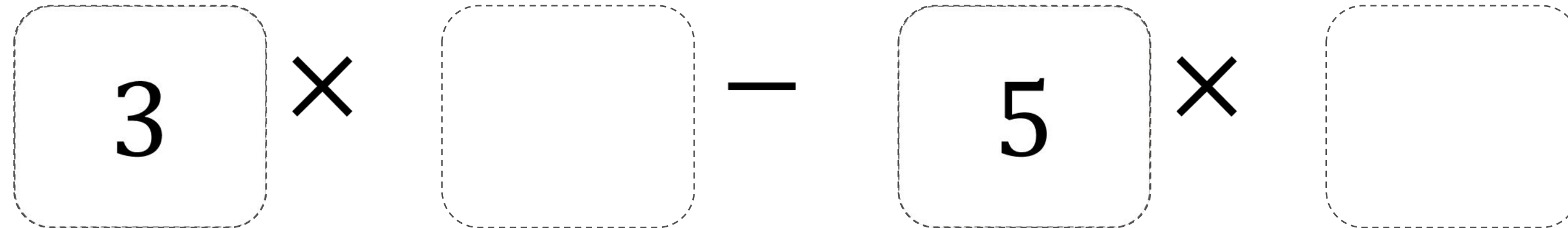
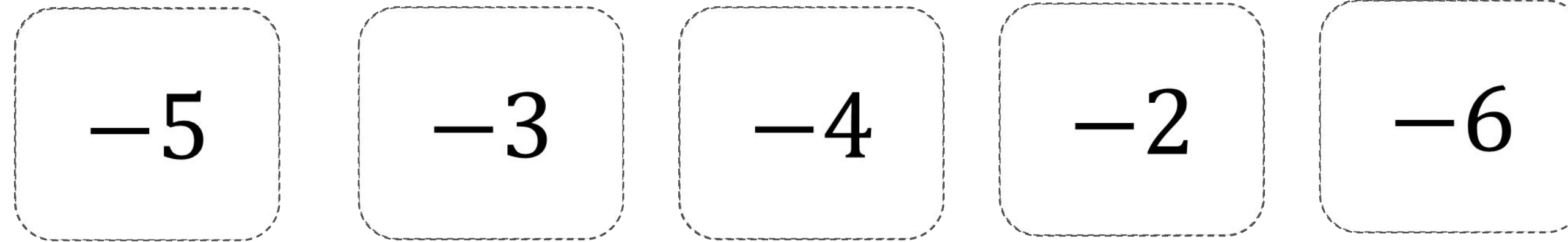
Negative Scale Factors Worksheet

Mrs Buckmire



Try this

Use the two of the five number cards to fill the spaces.



What is the greatest number you can produce?
What is the least?

Return to the
video once
completed



Connect

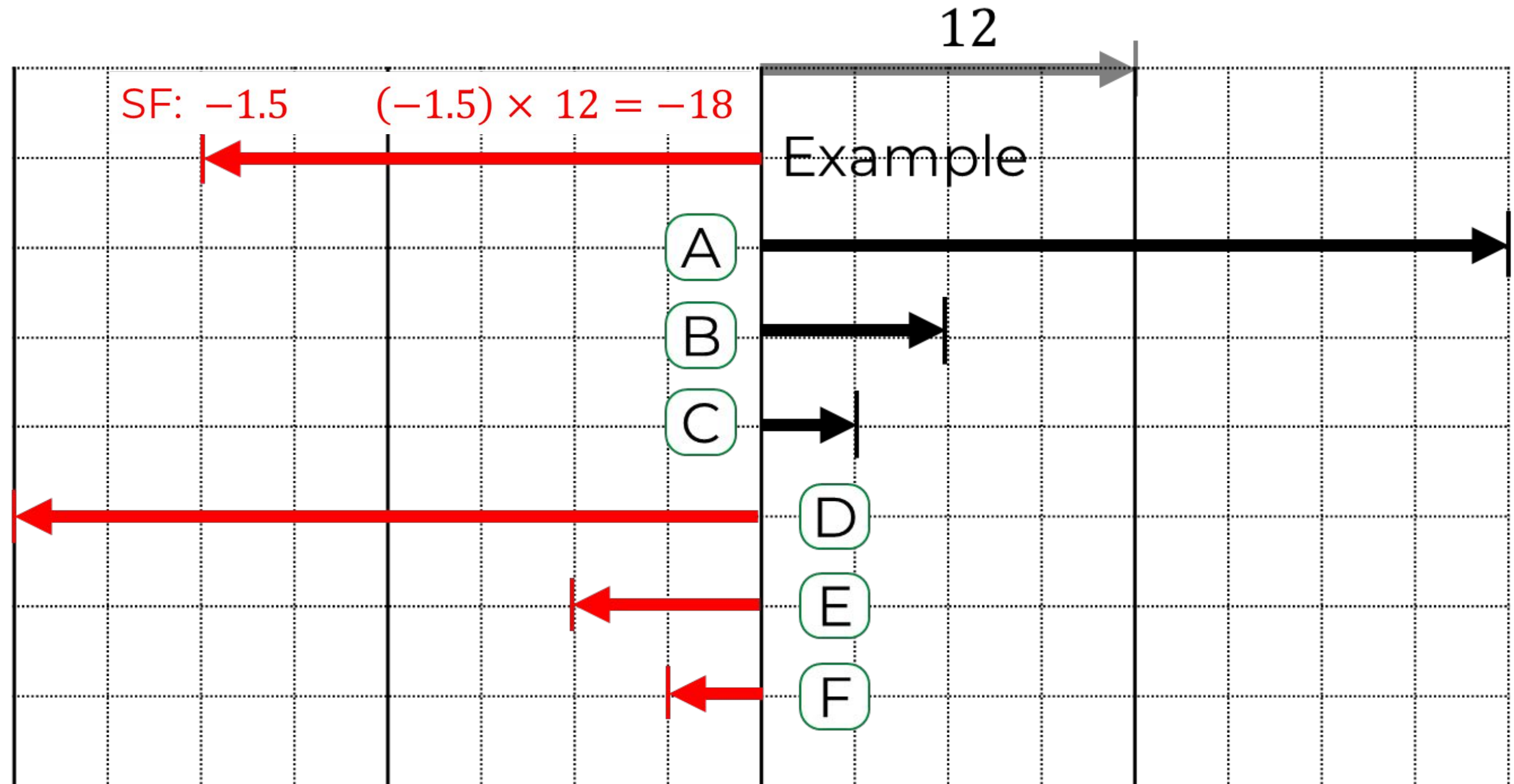
Each of these arrows can be connected to 12 using a **scale factor**.

For the example :

The scale factor is -1.5
and $(-1.5) \times 12 = -18$

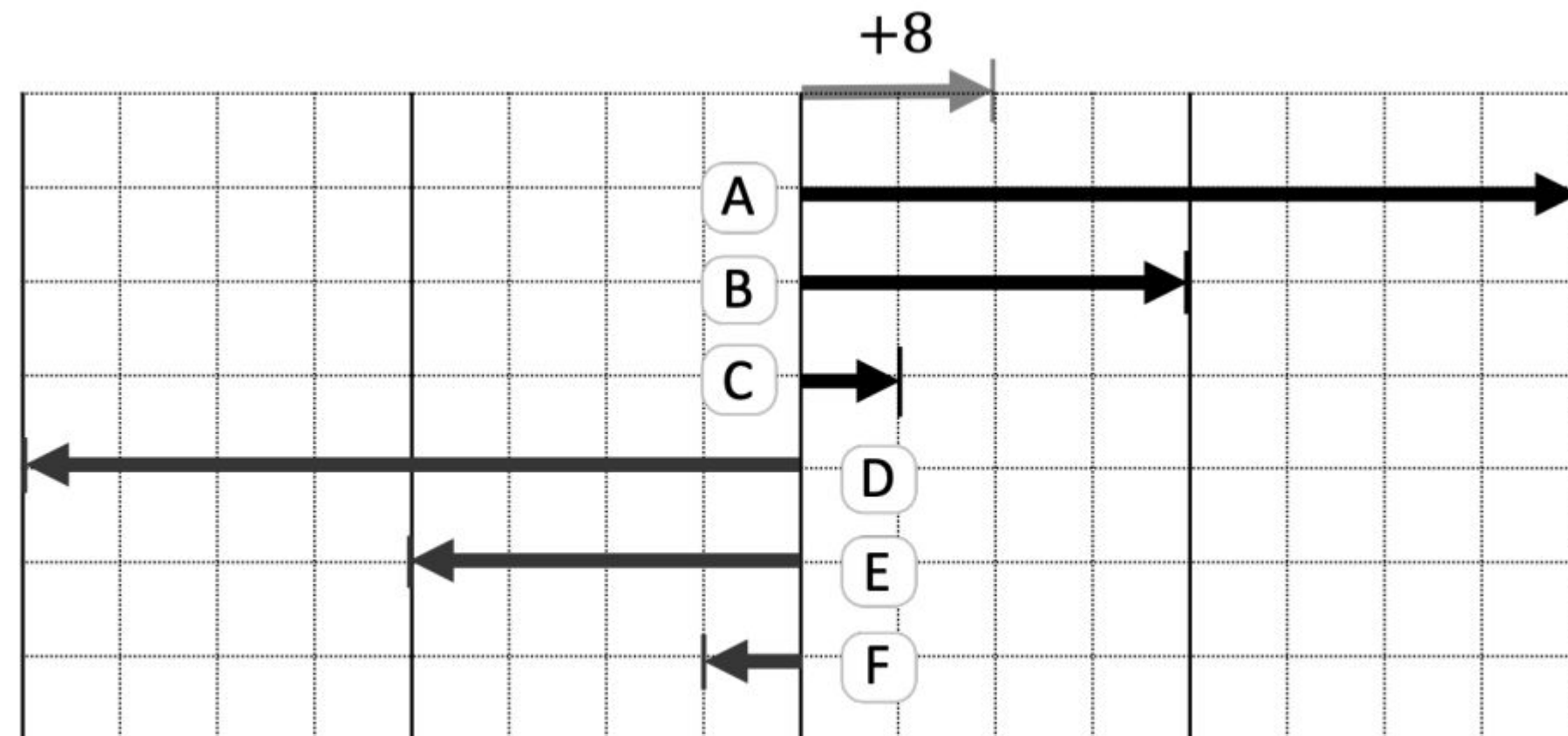
Describe a similar
calculation for A-F
and state the scale
factor.

Return to the
video once
completed



Independent task

1. For each representation complete the calculation: $\square \times 8 = \square$ and state the scale factor.



2. Identify the equal pairs of calculations

a) $(-12) \times 6$

b) $3 \times (-5)$

c) $6 \times (-12)$

d) $(-8) \times 4$

e) $(-16) \times 2$

f) $(-3) \times 5$

g) $(-12) \times \frac{1}{2}$

h) $(\frac{-1}{4}) \times 24$

Return to the video once completed



Explore

n and m are both positive integers and p is a negative integer.

How many solutions can you find to the following:

a) $n \times p = -24$

b) $p \times n \times m = -8$

What happens to your answers above if n , m and p are allowed to be non-integers?

Return to the
video once
completed

