

|                       |            |              |                  |
|-----------------------|------------|--------------|------------------|
| Compétence travaillée | Difficulté | Socle commun | Nombre d'erreurs |
| Produit en croix      | ★★★★★      | ✓            |                  |

Calculer la valeur manquante.

|                                      |                                      |                                     |                                     |
|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| 1) $\frac{MN}{6} = -2$               | 2) $\frac{-AB}{-4} = 5$              | 3) $\frac{-2}{4} = \frac{AB}{-3}$   | 4) $\frac{8}{-AC} = \frac{4}{-2}$   |
| 5) $\frac{8}{-MN} = 3$               | 6) $4 = \frac{AM}{-3}$               | 7) $\frac{-MN}{-9} = 9$             | 8) $\frac{-5}{-4} = \frac{-8}{AM}$  |
| 9) $\frac{AM}{9} = \frac{7}{-8}$     | 10) $-8 = \frac{3}{-AB}$             | 11) $\frac{MN}{-4} = \frac{-8}{-6}$ | 12) $\frac{AM}{-9} = \frac{2}{8}$   |
| 13) $\frac{-7}{-AB} = \frac{-2}{-6}$ | 14) $3 = \frac{-7}{AC}$              | 15) $-7 = \frac{AC}{7}$             | 16) $\frac{-4}{-6} = \frac{2}{AB}$  |
| 17) $\frac{-9}{-8} = \frac{-7}{-AC}$ | 18) $\frac{-4}{AM} = -6$             | 19) $\frac{8}{-AN} = 9$             | 20) $\frac{-AN}{-6} = \frac{-8}{2}$ |
| 21) $\frac{4}{2} = \frac{AN}{-8}$    | 22) $\frac{-2}{-AC} = \frac{-6}{-9}$ | 23) $\frac{AC}{7} = 5$              | 24) $\frac{9}{2} = \frac{-6}{MN}$   |
| 25) $\frac{AC}{-6} = 6$              | 26) $\frac{-5}{9} = \frac{AM}{6}$    | 27) $\frac{-4}{9} = \frac{AB}{-6}$  | 28) $\frac{MN}{2} = \frac{-7}{-8}$  |

|                          |                         |                         |                         |                        |
|--------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| 1) $MN = -12$            | 2) $AB = 20$            | 3) $AB = \frac{3}{2}$   | 4) $AC = 4$             | 5) $MN = -\frac{8}{3}$ |
| 6) $AM = -12$            | 7) $MN = 81$            | 8) $AM = -\frac{32}{5}$ | 9) $AM = -\frac{63}{8}$ | 10) $AB = \frac{3}{8}$ |
| 11) $MN = -\frac{16}{3}$ | 12) $AM = -\frac{9}{4}$ | 13) $AB = 21$           | 14) $AC = -\frac{7}{3}$ | 15) $AC = -49$         |
| 16) $AB = 3$             | 17) $AC = \frac{56}{9}$ | 18) $AM = \frac{2}{3}$  | 19) $AN = -\frac{8}{9}$ | 20) $AN = -24$         |
| 21) $AN = -16$           | 22) $AC = 3$            | 23) $AC = 35$           | 24) $MN = -\frac{4}{3}$ | 25) $AC = -36$         |
| 26) $AM = -\frac{10}{3}$ | 27) $AB = \frac{8}{3}$  | 28) $MN = \frac{7}{4}$  |                         |                        |