N1.B Multiplication et division de nombres relatifs CORRECTION 4e

20
- –5 et –3 sont négatifs donc F est positif.
- –21 est négatif et 8 est positif donc G est négatif.
- 235 est positif et –9 est négatif donc H est négatif.
- –54 et –8 sont négatifs donc $\frac{-54}{-8}$ est positif et I est son opposé donc I est négatif.

21 J = –7 K = 12 L = –4

22
M = 5 N = –3,5 P = –3
Q = –1,5 R = –5,5 S = –9

46 A est négatif ; B est négatif ; C est positif ; D est négatif ; E est positif ; F est négatif.

47
A = (–48) ÷ 6 = –8 B = (–35) ÷ (–7) = 5
C = 55 ÷ (–11) = –5 D = 0 ÷ (–3) = 0
E = –15 ÷ (–0,1) = 150 F = –24 ÷ 100 = –0,24

48
$A = \frac{-9}{-2} = 4{,}5$ $B = \frac{24}{-6} = -4$
$C = \frac{-12}{5} = -2{,}4$ $D = -\frac{-21}{-7} = -3$

50
A = 34 ÷ (–5) = –6,8 B = (–21) ÷ 6 = –3,5
C = (–60) ÷ (–12) = 5 D = (–22) ÷ 4 = –5,5
E = (–7) ÷ (–0,2) = 35 F = (–105) ÷ (–3) = 35

54
a. $\frac{-36}{-3} = 12$ b. $\frac{-16}{5} = -\frac{16}{5} = -3{,}2$
c. $\frac{3}{-10} = -\frac{3}{10} = -0{,}3$ d. $\frac{-4}{3} = -\frac{4}{3}$
e. $\frac{11}{-6} = -\frac{11}{6}$ f. $\frac{-8}{-9} = \frac{8}{9}$

62 Une foule de quotients

1.

A = 17 ÷ (3 – 10)
A = 17 ÷ (–7)
$A = -\frac{17}{7}$

B = [–2 – (–17)] ÷ (5 – 8)
B = (–2 + 17) ÷ [5 + (–8)]
B = 15 ÷ (–3)
B = –5

C = (–4 – 5) ÷ (5 – 6)
C = (–9) ÷ (–1)
C = 9

D = (6 – 6 × 4) ÷ (6 × 2 – 2)
D = (6 – 24) ÷ (12 – 2)
D = (–18) ÷ 10
D = –1,8

E = 2 – 6 + 6 = 2

F = [(–21) + 7 × 3] ÷ [–13 + 17 × (–4)]
F = (–21 + 21) ÷ [–13 + 17 × (–4)]
F = 0 ÷ [–13 + 17 × (–4)]
F = 0

G = [–2 × (–4) × 3 × (–3)] ÷ (4,5 × 2)
G = –72 ÷ 9
G = –8

H = [–5 × (–3) × (–4)] ÷ [(–1) × (–1) × (–1)]
H = –60 ÷ (–1)
H = 60

I = [–9 × (–3) – (–3) × (–5)] ÷ [15 ÷ (–3) –2]
I = (27 – 15) ÷ (–5 – 2)
I = 12 ÷ (–7)
$I = -\frac{12}{7}$

3. $-8 < -5 < -\frac{17}{7} < -1{,}8 < -\frac{12}{7} < 0 < 2 < 9 < 60$

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3. $-8 < -5 < -\frac{17}{7} < -1{,}8 < -\frac{12}{7} < 0 < 2 < 9 < 60$