18.9.15

Real Numbers

Multiplying and Dividing Rational

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Estimate each product.

1. $-8\frac{1}{2}\times\left(-1\frac{1}{4}\right)$
2. $-6\frac{2}{3}\times3\frac{1}{2}$
3. $3\frac{1}{5}\times\left(-2\frac{5}{6}\right)$
4. -4.9×2.2
5. $-5.6\times(-7.8)$
6. $3.4\times(-9.7)$

1) + Jake 8.5 Providence 8.75

Jeronte 9 Sierra 9

William 8.6 Nick 8.75

10.625

2) Sierra −28 Jeronte −30 Nick $\boxed{-24}$ −23.3

Jerome −29 Robyn −26 William −21

#2 According to Providence who uses a 0.5 pencil

$-\frac{\cancel{20}^{10}}{3}\times\frac{7}{\cancel{2}_{1}}=-\frac{70}{3}=-23\frac{1}{3}$

5. $(-5.6)\times(-7.8)$

Jeronte +35.5 Mason +39 Jake +46.4 Robyn 35.48 $\boxed{43.68}$

Sofia +44 Abishai +40 Raven 35.7

Rule for multiplying fractions: $\dfrac{\text{Top} \times \text{Top}}{\text{Bottom} \times \text{Bottom}}$ ← maybe you can cancel 1ST, and reduce if you can.

8. $-\dfrac{\cancel{2}}{\cancel{7}} \times \left(-\dfrac{\cancel{7}}{\cancel{2}}\right)$

$= +1$

13. $-0.46 \times (-0.5)$

$= 0.23$

22. $-2.25 \times (-1.4)$

$= 3.15$

10. $\dfrac{5}{\cancel{8}_4} \times \dfrac{\cancel{2}^1}{3} = \dfrac{5}{12}$

15. $1\dfrac{1}{2} \times 3\dfrac{1}{4} = \dfrac{3}{2} \times \dfrac{13}{4} = \dfrac{39}{8}$

$= 4\dfrac{7}{8}$

$\left(1 + \dfrac{1}{2}\right)\left(3 + \dfrac{1}{4}\right)$

$= 3 + \dfrac{1}{4} + \dfrac{3}{2} + \dfrac{1}{8}$

$= 4\dfrac{7}{8}$

24. $\left(-\dfrac{2}{5}\right)^{2}$

25. $-\left(\dfrac{1}{2}\right)^{4}$

× not affecting the negative

$= \left(-\dfrac{2}{5}\right)\left(-\dfrac{2}{5}\right)$

$= +\dfrac{4}{25}$

25). $-\left(\dfrac{1}{2}\right)\left(\dfrac{1}{2}\right)\left(\dfrac{1}{2}\right)\left(\dfrac{1}{2}\right)$

$= -\dfrac{1}{16}$

30. Stock market The price of Canadian Pacific stock fell by \$0.90 one day. What was the change in the value of 400 shares of Canadian Pacific?

400×0.90

$= \$360.00$

Hwk

Box 2

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