

Name: _____

Date: _____

Score: _____ / 19

Rational Numbers

Operations with positive and negative fractions and decimals, and ordering them.

Rational $a \div b, b \text{ not } 0$	Same signs product is positive	Add fractions common denominator	Multiply tops $\times$ tops
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Section A — Adding

Lowest terms.

1. $3/4 + (-2/5) =$ _____

2. $(-5/6) + 1/3 =$ _____

3. $7/8 + (-3/4) =$ _____

4. $(-1/2) + (-5/6) =$ _____

5. $2/9 + 7/12 =$ _____

6. $(-7/10) + 3/5 =$ _____

Section B — Multiplying

Lowest terms.

7. $2/3 \times (-3/4) =$ _____

8. $(-5/8) \times 2/5 =$ _____

9. $7/9 \times (-3/7) =$ _____

10. $(-4/5) \times (-5/6) =$ _____

11. $3/10 \times 8/9 =$ _____

12. $(-1/4) \times (-2/3) =$ _____

Section C — Decimals

Find each product.

13. $-1.25 \times 3.5 =$ _____

14. $2.4 \times -0.75 =$ _____

15. $-6.2 \times -1.8 =$ _____

16. $0.6 \times -4.4 =$ _____

Section D — Thinking About Rationals

Answer as asked.

17. Order from least to greatest: $-2/3$, 0.7 , -0.5 , $5/8$

18. Is the product of two negative rationals positive or negative?

19. Express 0.375 as a fraction in lowest terms.

Rational Numbers — Answer Key

For marking. Accept equivalent correct forms.

Section A — Adding

1. $\frac{7}{20}$

2. $-\frac{1}{2}$

3. $\frac{1}{8}$

4. $-1\frac{1}{3}$

5. $\frac{29}{36}$

6. $-\frac{1}{10}$

Section B — Multiplying

7. $-\frac{1}{2}$

8. $-\frac{1}{4}$

9. $-\frac{1}{3}$

10. $\frac{2}{3}$

11. $\frac{4}{15}$

12. $\frac{1}{6}$

Section C — Decimals

13. -4.375

14. -1.8

15. 11.16

16. -2.64

Section D — Thinking About Rationals

17. $-\frac{2}{3}$, -0.5 , $\frac{5}{8}$, 0.7

18. positive

19. $\frac{3}{8}$
