

1. Identify the rational numbers.

a) 17 ✓

$\frac{5}{0}$ ✗

-3.606 ✓

ends

$\sqrt{3}$ ✗

$-8\frac{3}{4}$ ✓

b) -0.2 ✓

$9.\overline{12}$ ✓

$\frac{0}{0}$ ✗

$-\frac{13}{4}$ ✓

7.1234... ✗

ends repeating

6. Identify the equivalent fraction pairs.

a) $-\frac{10}{4}, -\frac{10}{4}$

$-\frac{10}{4}, \frac{10}{4}$

Not
equivalent

b) $-\frac{7}{14}, -\frac{1}{2}$

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

✓

c) $\frac{-5}{-2}, \frac{5}{2}$

✓

7. Identify the equivalent rational number pairs.

a) $\frac{-3}{-2}$, $1\frac{1}{2}$

$\frac{2}{3}$
 $\frac{2}{2} + \frac{1}{2}$
 $\frac{2}{3}$

b) $4.\bar{6}$, $4\frac{2}{3}$

$4 + 0.\bar{6}$
 $\frac{3}{6} + \frac{0}{6}$
 $\frac{42}{9}$

$4\frac{2}{3}$
 $\frac{12}{3} + \frac{2}{3}$
c) -0.8 , $\frac{-4}{-5}$
neg pos

$\frac{14 \times 3}{3 \times 3} = \frac{42}{9}$

8. Identify the smaller value in each pair.

a) $-\frac{1}{2}, \frac{3}{4}$

neg is always smaller than pos

b) $\frac{7}{8}, \frac{8}{9}$
(Handwritten: $\times 9$ above 7, $\times 8$ above 8, $\times 9$ below 8)

$\frac{63}{72}, \frac{64}{72}$

$\frac{7}{8}$

c) $-\frac{3}{7}, -\frac{4}{7}$

d) $-\frac{1}{100}, -\frac{1}{10}$
(Handwritten: $\times 10$ above 1, $\times 10$ below 10)

$-\frac{10}{100}$

e) $-2\frac{3}{4}, -2\frac{3}{8}$

$-\frac{3}{4}, -\frac{3}{8}$
(Handwritten: $\times 2$ above 3, $\times 2$ below 4)

$-\frac{6}{8}$

f) $0, -\frac{1}{11}$

10. For each of the following pairs of rational numbers,

i) write the rational numbers in fraction form

ii) identify a fraction between the pair of fractions

a) 0.8, 0.9

$$\frac{8 \times 2}{10 \times 2} \quad \frac{9 \times 2}{10 \times 2}$$

$$\frac{16}{20} \quad \frac{17}{20} \quad \frac{18}{20}$$

b) -0.65, -0.66

$$\frac{-65 \times 10}{100 \times 10} \quad \frac{-66 \times 10}{100 \times 10}$$

$$\frac{-650}{1000} \quad \frac{-660}{1000}$$

c) -0.9, -1

$$\frac{-9 \times 2}{10 \times 2} \quad \frac{-10 \times 2}{10 \times 2}$$

$$\frac{-18}{20} \quad \frac{-19}{20} \quad \frac{-20}{20}$$

$$\frac{-655 \div 5}{1000 \div 5} = \frac{-131}{200}$$

11. Express each rational number as a fraction or mixed number in lowest terms.

a) $7 \div (-14)$

$$\frac{7 \div 7}{-14 \div 7} = -\frac{1}{2}$$

b) $-75 \div 100$

$$\frac{-75 \div 25}{100 \div 25} = -\frac{3}{4}$$

c) -4.4

$$\frac{-44 \div 2}{10 \div 2} = -\frac{22}{5} = -4\frac{2}{5}$$

$$\frac{-655}{1000}$$

$$\frac{-10}{4}$$

$$-2.5$$

largest to smallest

Place these rational numbers in descending order.

$$\frac{-3}{4}, 0.5, -1.8, -5, \frac{7}{3}, 2, -3.\bar{3}, 1\frac{3}{4}$$

i'm okay with you using a calculator
for this type of question

Identify a decimal between each pair of rational numbers.

$$\frac{-1}{2} \text{ and } \frac{-1}{4}$$

$$\frac{-2}{4}$$

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

$$\frac{-6}{12}$$

$$\frac{-3}{12}$$

$$\frac{-4}{12}$$

calc.

$$-0.3$$

$$-0.25 \text{ and } -0.26$$

$$-0.250$$

$$-0.260$$

$$-0.255$$

Identify a fraction between each pair of rational numbers.

$$\frac{-2}{3} \text{ and } \frac{-3}{4}$$

$$\frac{5}{2} \text{ and } \frac{7}{3}$$

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14, 16-18, 21, 24-27