

Understand and use the reciprocal

1 Match the numbers and fractions to their reciprocals.

3

15

$\frac{3}{4}$

$\frac{1}{3}$

$\frac{1}{15}$

$\frac{4}{3}$

2

$\frac{x}{2}$

$\frac{1}{x}$

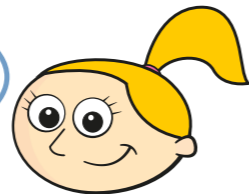
$\frac{1}{2}$

$\frac{2}{x}$

x

2

3 is bigger than 2,
so the reciprocal of 3 is greater
than the reciprocal of 2

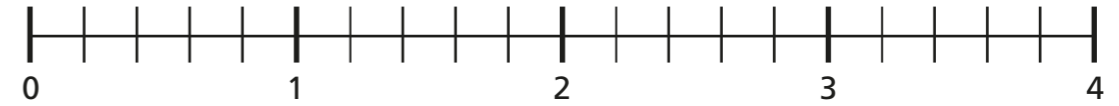


Is Eva correct? _____

Explain your reasoning.

3

Work out the pairs of calculations. Use the number line to help you.



a) $1 \div \frac{1}{5} = \square$

$1 \times 5 = \square$

c) $3 \div \frac{1}{5} = \square$

$3 \times 5 = \square$

b) $2 \div \frac{1}{5} = \square$

$2 \times 5 = \square$

d) $4 \div \frac{1}{5} = \square$

$4 \times 5 = \square$

Complete the sentence.

_____ by a fraction is the same as _____
by its reciprocal.

4

Complete the calculations.

a) $6 \div \frac{1}{5} = \square$

c) $5 \div \frac{1}{4} = \square$

b) $7 \div \frac{1}{5} = \square$

d) $8 \div \frac{1}{4} = \square$



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$$4 \div \frac{1}{3} = 4 \times 3 = 12 \quad 4 \div \frac{2}{3} = 4 \times 3 \div 2 = 6$$

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