

MATH 4: TEST 2

May, 17

1. Circle the prime numbers: 1, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20.

2. Find GCD (or GCF) and LCM of 24 and 36

24 =

36 =

GCF =

LCM =

3. Compare, put $>$, $<$, $=$:

(a) $-7 \square (-3)$

(b) $-0.25 \square -2.5$

(c) $-7 \square \frac{1}{7}$

4. Compute:

$$-3 - (-6) =$$

$$8 - (-4) + (-4) =$$

$$1 - 7 =$$

$$|1 - 7| =$$

5. Find the reciprocal fraction

a. the reciprocal of $\frac{5}{3}$ is

b. the reciprocal of $1\frac{1}{4}$ is

6. Compute:

$$2\frac{1}{9} - \frac{1}{3} =$$

$$2\frac{1}{9} \cdot \frac{1}{3} =$$

$$2\frac{1}{9} \div \frac{1}{3} =$$

7. Ben is a member of a rowing team. His best speed is 5km/h on a lake. He travels on a boat **downstream** to another camp site 6 km away. How long it would take him to get to the second camp site if **the river speed** is 1 km/h.

8. Oliver can clean the kitchen after dinner for 10 min, Marie for 15 min. How fast they will clean the kitchen if they work together?

9. Solve equations [*Remember the answer can be whole or fraction; positive or negative*]:

$$13x + 29 = 11x - 3$$

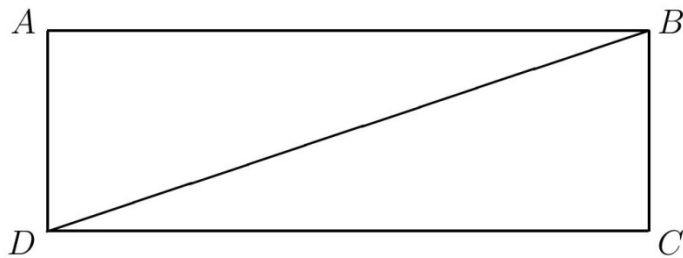
$$3(3x - 1) = 2(2x + 11)$$

$$\frac{3}{4}x = \frac{2}{7}$$

$$\frac{1}{3}x = \frac{1}{6}x + 2$$

- 10.** The grandmother of a 5 year old girl is 65 years old. In how many years the grandma will be 3 times older than her grand-daughter? [Name X "in how many years..", write equation, solve it.]

- 11.** ABCD is a rectangle. BD is a diagonal. Proof that $\triangle ABD \cong \triangle CBD$



- 12.** Marks bakes 25 pizzas. Each pizza can be cut either into 8 small slices or 6 large slices. How should he cut it to make 182 pieces?