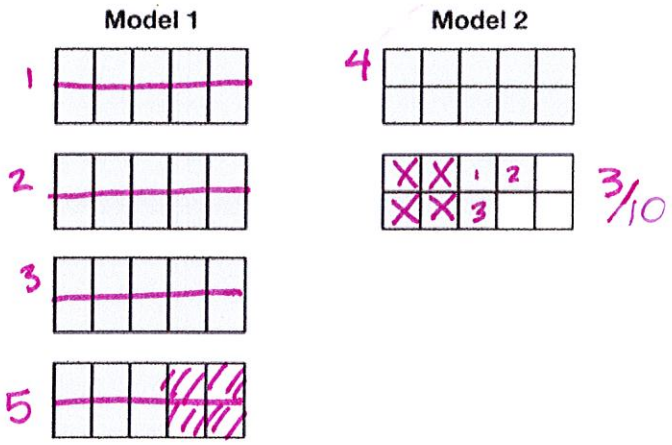
Student Name: Key Date: _____

5th Grade Cluster 5 Assessment - Fractions

1. The models shown are shaded to represent two mixed numbers.



B

What is the sum of these two mixed numbers?

A $5\frac{3}{5}$

B $5\frac{3}{10}$

C $4\frac{2}{3}$

D $4\frac{3}{10}$

4/12 = 16/12

2. Macy washed her dirty clothes over the weekend. She used $1\frac{1}{3}$ scoops of detergent for her white load and $\frac{9}{12}$ of a scoop of detergent for her color load. How much more laundry detergent did she use in the white load?

9/12

D

A $\frac{1}{12}$ of a scoop

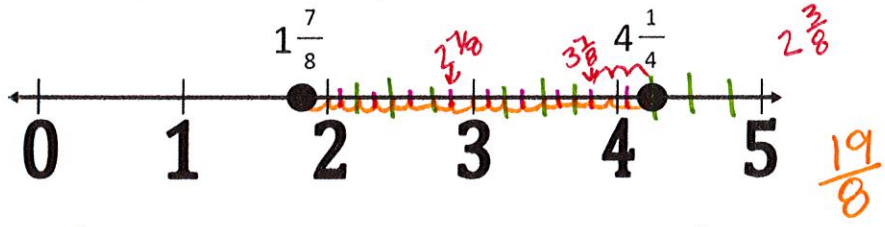
B $\frac{2}{12}$ of a scoop

16-9=7 $\frac{16}{12} - \frac{9}{12} = \frac{7}{12}$

C $\frac{5}{12}$ of a scoop

D $\frac{7}{12}$ of a scoop

3. How far apart are the two points on this number line?



C

19/8

A $2\frac{1}{2}$

B $2\frac{2}{8}$

C $2\frac{3}{8}$

D $2\frac{2}{12}$

4. Maggie carried 3 bags of groceries in from the grocery store.

- The first bag weighed $4\frac{5}{12}$ pounds.
- The second bag weighed $2\frac{1}{6}$ pounds
- The third bag weighed $1\frac{2}{3}$ pounds.

L $4\frac{5}{12}$

R $2\frac{2}{12}$

$1\frac{8}{12} > 3\frac{10}{12}$

D

She carried the first bag in her left hand. She carried the second and third bag in her right hand. How much more weight did she carry with her left hand than her right hand?

A $8\frac{5}{12}$ pounds

B $3\frac{5}{6}$ pounds

C $1\frac{3}{12}$ pounds

D $\frac{7}{12}$ pound

5. Busola had 6 cups of flour. She used $4\frac{2}{3}$ cups of flour to make cookies. How many cups of flour does Busola have left?

$1\frac{1}{3}$

A

A $1\frac{1}{3}$ cups

B $2\frac{1}{3}$ cups

C $2\frac{2}{3}$ cups

D $10\frac{2}{3}$ cups

6. The cafeteria served pizza for lunch to three fifth grade classes. The cafeteria made 18 pizzas to be shared by the three classes.

- Ms. Hill's class ate $5\frac{1}{2}$ pizzas.
- Mr. Jones' class ate $7\frac{3}{4}$ pizzas.

$5\frac{2}{4}$

$7\frac{3}{4} > 12\frac{5}{4} = 13\frac{1}{4}$

A

How much pizza was left for Ms. Barnette's class?

A $4\frac{3}{4}$

B $5\frac{3}{4}$

C $12\frac{3}{4}$

D $13\frac{1}{4}$

$13\frac{1}{4}$ 1

$14\frac{1}{4}$ 2

$15\frac{1}{4}$ 3

$16\frac{1}{4}$ 4

$17\frac{1}{4}$ $\frac{3}{4}$

$\frac{3}{4}$

7. Josie has three plants. She is keeping track of how much the plants grow. The table below shows how many inches the plants have grown.

Plants	Amount Grown
Plant A	$3\frac{5}{6}$ inches
Plant B	$2\frac{1}{10}$ inches
Plant C	$4\frac{3}{12}$ inches

About how many inches have the three plants grown altogether?

B

A 9 inches
B 10 inches
C 11 inches
D 12 inches

$3\frac{10}{12} + 4\frac{3}{12} = 7\frac{13}{12}$

$8\frac{1}{12}$
$2\frac{1}{10}$ >10+

8. Javion drank $\frac{7}{8}$ quart of juice in two days. He drank $\frac{1}{4}$ quart of juice yesterday. How much did he drink today?

A

A $\frac{5}{8}$ quart
B $\frac{6}{8}$ quart
C $1\frac{1}{4}$ quarts
D $1\frac{1}{8}$ quarts

$\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$

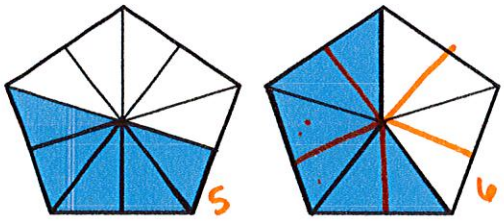
9. Sonya was $40\frac{3}{8}$ inches tall in kindergarten. She is $60\frac{7}{12}$ inches tall in fifth grade. About how many inches taller is Sonya in fifth grade than she was in kindergarten?

A

A 20 inches
B 22 inches
C 101 inches
D 102 inches

$60 - 40 = 20$

10. The models are shaded to represent two fractions.



$\frac{11}{10} = 1\frac{1}{10}$

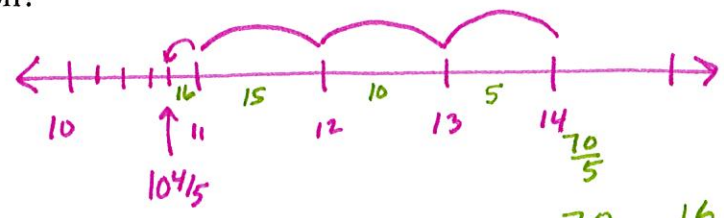
What is the sum of these two shaded fractions?

Answer:

$1\frac{1}{10}$ or $\frac{11}{10}$

11. What is the value of this expression?

$$14 - 3\frac{1}{5}$$



Answer:

$10\ 4/5$ or $\frac{54}{5}$

$\frac{50}{5} + \frac{4}{5} = \frac{54}{5}$

$\frac{70}{5} - \frac{16}{5} = \frac{54}{5}$

12. Ms. Patterson made two trays of brownies for a class celebration. After the party, both trays had some brownies left over.

- $\frac{3}{10}$ of the first tray of brownies was left over.
- $\frac{2}{5}$ of the second tray of brownies was left over.

Ms. Patterson decided to combine the two trays of brownies. Explain how she can use equivalent fractions to figure out how much of a tray of brownies she has left. Create fraction models to show the equivalent fractions used to combine the two trays of brownies are the same amount as $\frac{3}{10}$ and $\frac{2}{5}$. How much of a tray does Ms. Patterson have left?