

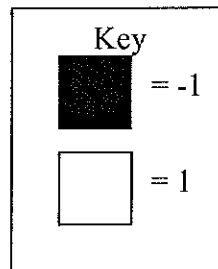
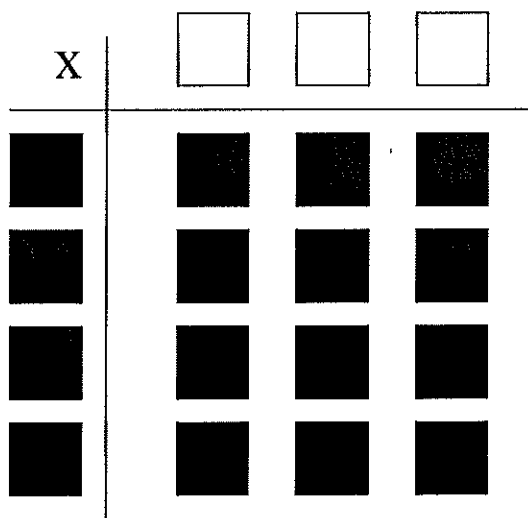
7th Grade Review for the Fall DA

1. The fraction $\frac{5}{8}$ is found between which pair of fractions on a number line?

- a. $\frac{9}{16}$ and $\frac{19}{32}$
- b.** $\frac{8}{16}$ and $\frac{21}{32}$
- c. $\frac{10}{16}$ and $\frac{24}{32}$
- d. $\frac{11}{16}$ and $\frac{24}{32}$

$$\frac{5}{8} = \frac{10}{16} = \frac{20}{32}$$

2. Which equation does the model represent?



- a.** $3 \cdot (-4) = -12$
- b. $(-3) \cdot (-4) = 12$
- c. $4 \cdot (-3) = -12$
- d. $4 \cdot 3 = 12$

3. Nora wants to save \$82.50 to buy a special gift for her mother. She has 15 weeks to save the money. If she wants to save the same amount each week, how much money, in dollars and cents, must Nora save each week?

- a. \$1237.50
- b. \$55.50
- c.** \$5.50
- d. \$123.75

$$\begin{array}{r} 5.50 \\ 15 \overline{) 82.50} \\ \underline{-75} \\ 75 \\ \underline{-75} \\ 0 \end{array}$$

4. What is the value of the expression below?

- a. 35
- b.** 50
- c. 90
- d. 230

$$5 + 5(9 \div 3)^2$$

$$\begin{array}{l} 5 + 5(9 \div 3)^2 \\ 5 + 5(3)^2 \\ 5 + 5(9) \\ 5 + 45 \\ 50 \end{array}$$

5. Hans has $\frac{2}{3}$ pound of butter. He used $\frac{1}{4}$ pound of butter to make a cake. How much butter was left?

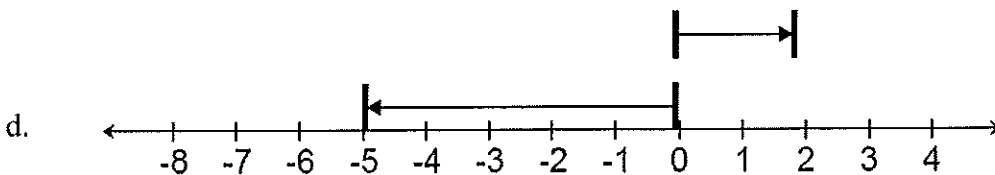
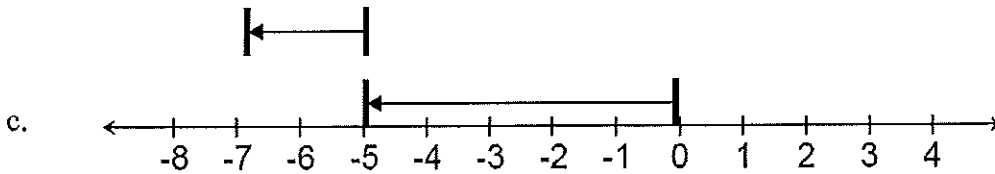
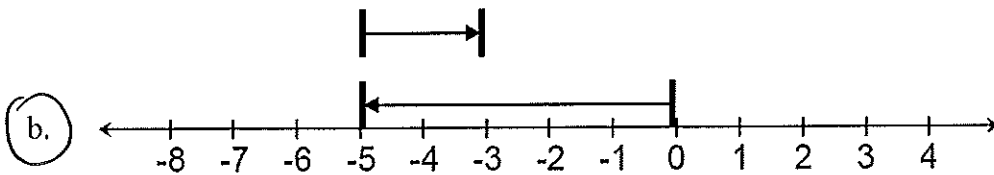
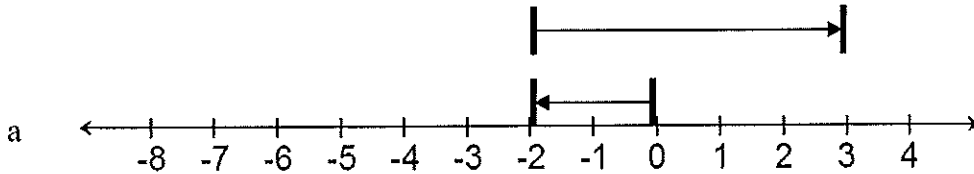
- a. $\frac{1}{3}$ lb
- b. $\frac{3}{7}$ lb
- c. $\frac{1}{4}$ lb
- d. $\frac{5}{12}$ lb

$$\begin{array}{r} \frac{2}{3} \quad \frac{8}{12} \\ - \frac{1}{4} \quad \frac{3}{12} \\ \hline \frac{5}{12} \end{array}$$

6. Which list of integers is in order from greatest to least?

- a. -42, -39, -4, 40, 41
- b. -42, 41, 40, -39, -4
- c. -4, -39, 40, 41, -42
- d. 41, 40, -4, -39, -42

7. Which model represents $-5 + 2$?



8. Simplify the expression below.

$$4 + 2(13 - 4) \div 3^2$$

- a. 7
- b. 6
- c. 2
- d. 8

$$\begin{array}{r} 4 + 2(13 - 4) \div 3^2 \\ 4 + 2(9) \div 9 \\ 4 + 18 \div 9 \\ 4 + 2 \\ 6 \end{array}$$

9. Sandy purchased three DVD movies and a \$3.00 box of popcorn from the Movie Warehouse. He paid a total of \$24.90 for the four items. What was the cost of each DVD movie, if each movie cost the same amount?

- a. \$7.30
- b. \$8.30
- c. \$9.30
- d. \$21.90

$$\frac{24.90 - 3.00}{3} = \frac{21.90}{3}$$

$$\begin{array}{r} 7.30 \\ 3 \overline{) 21.90} \\ \underline{21} \\ 9 \\ \underline{9} \\ 0 \end{array}$$

10. An electrician has been working at four customer sites. He has completed 0.5, 0.25, 0.125, and 0.75 of his work at the sites. Which list shows the decimals of the work completed at the sites in order from least to greatest?

- a. 0.125, 0.5, 0.25, 0.75
- b. 0.75, 0.5, 0.25, 0.125
- c. 0.125, 0.25, 0.5, 0.75
- d. 0.25, 0.5, 0.75, 0.125

The table below shows the amount of TV viewing by Jose over the last 6 days.

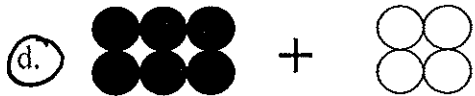
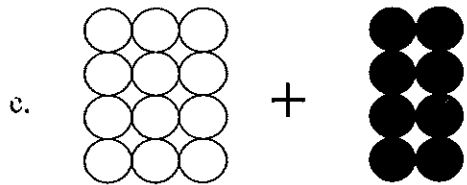
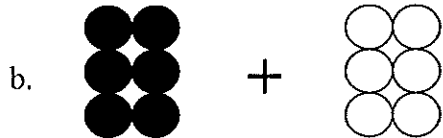
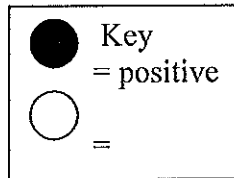
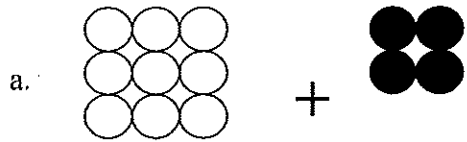
Day	Amount
1	$2\frac{2}{5}$ 2.40
2	$3\frac{1}{2}$ 3.50
3	1 1.00
4	$\frac{3}{4}$.75
5	2 2.00
6	$\frac{4}{5}$.80

$$\begin{array}{l} 10.45 \text{ hrs.} \\ 10\frac{45}{100} \\ 10\frac{9}{20} \end{array}$$

11. What was the total amount of TV viewing by Jose during this period?

- a. $17\frac{9}{10}$ hours
- b. $8\frac{4}{5}$ hours
- c. $10\frac{9}{20}$ hours
- d. $6\frac{3}{5}$ hours

12. Which modeled expression results in a *negative* sum?



13. The French Club met at a French restaurant for dinner. The restaurant charged each of the 23 members \$9.79 for the dinner. This price included the tax and tip. What was the total bill for the French Club?

- a. \$220.25
- b. \$225.17
- c. \$219.17
- d. \$215.37

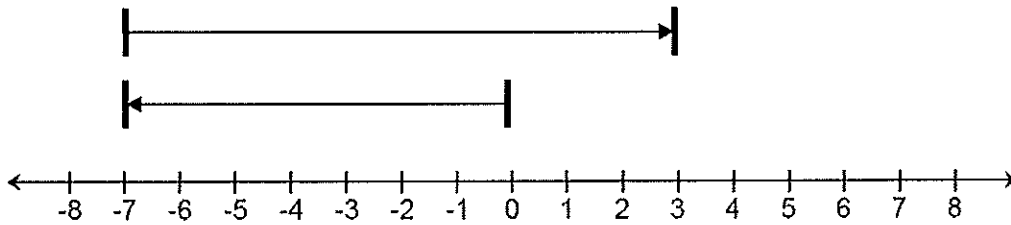
$$\begin{array}{r}
 29.79 \\
 \times 23 \\
 \hline
 2937 \\
 1958 \\
 \hline
 225.17
 \end{array}$$

14. The city of Sugar Land is building a sidewalk. The workers use $\frac{2}{3}$ bag of cement to make one sidewalk square. How many bags of cement would be needed to make $7\frac{1}{2}$ sidewalk squares?

- a. 5 bags
- b. 6 bags
- c. $6\frac{1}{6}$ bags
- d. $8\frac{1}{6}$ bags

$$\begin{array}{l}
 7\frac{1}{2} \times \frac{2}{3} = \\
 \frac{5\cancel{15}}{2} \times \frac{\cancel{2}}{3} = 5
 \end{array}$$

15. Which expression is represented by the model below?



- a. $-7 + 0$
- b. $-7 + 3$
- c. $-7 + 7$
- d. $-7 + 10$

16. What value falls in between 61% and 75%?

- $\frac{60}{100}$ $\frac{75}{100}$
- 87.5% 62.5%
- a. $\frac{3}{4}$ b. $\frac{7}{8}$ c. $\frac{5}{8}$ d. $\frac{4}{5}$

17. Selena's Restaurant bought $2\frac{2}{9}$ pounds of onions. The restaurant bought $1\frac{1}{8}$ times as much potatoes as onions. How many pounds of potatoes did the restaurant buy?

- a. $3\frac{3}{17}$ pounds
- c. $2\frac{1}{2}$ pounds
- b. $1\frac{79}{81}$ pounds
- d. 4 pounds

$$2\frac{2}{9} \times 1\frac{1}{8} = \frac{20}{9} \times \frac{9}{8} = \frac{20}{8} = 2\frac{1}{2} \text{ lbs.}$$

18. Max bought a piece of copper pipe that is $4\frac{2}{3}$ inches long. If Max cuts the pipe into 4 equal pieces, how long will each piece be?

Length of each piece? $1\frac{1}{6}$ inches. $4\frac{2}{3} \div \frac{4}{1} = \frac{14}{3} \times \frac{1}{4} = \frac{7}{6} = 1\frac{1}{6}$

19. The Taylor family is starting a running program. There are 4 members in the Taylor family and their goal is to run 46 miles in five days. They ran $7\frac{1}{2}$ miles on Monday, $5\frac{3}{4}$ miles on Tuesday, 6 miles on Wednesday, and $8\frac{3}{4}$ miles on Thursday. How many miles did they have left to run on Friday?

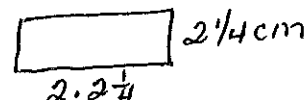
of miles left to run: 18 miles

$$46 - (7\frac{1}{2} + 5\frac{3}{4} + 6 + 8\frac{3}{4}) = 46 - (7.5 + 5.75 + 6 + 8.75) = 46 - 28 = 18$$

20. The height of a parallelogram is $2\frac{1}{4}$ cm. The base is twice the height. What is the area?

(Hint: Draw and label the parallelogram and then solve.)

Area = $10\frac{1}{8} \text{ cm}^2$



$$\frac{2}{1} \cdot \frac{9}{4} \cdot \frac{9}{4} = 8\frac{1}{8} = 10\frac{1}{8}$$