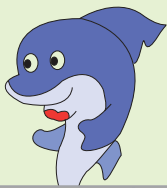


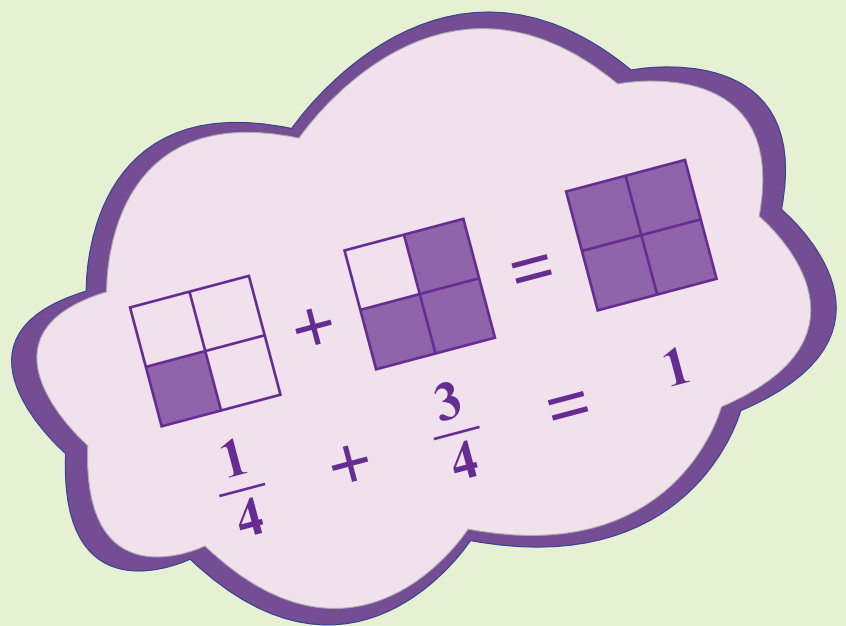
Number Systems

7th
Grade

Number Line



IN	OUT
	1
12	
20	
	6
<i>Rule : $\div 4$</i>	



Workbook 1

Adding and Subtracting Integers

Simplify.

1) $1 + 15 =$ _____

2) $(-6) - (-17) =$ _____

3) $19 - (-2) =$ _____

4) $(-13) + 20 =$ _____

5) $(-4) + (-18) =$ _____

6) $5 - 14 =$ _____

7) $(-12) - 7 =$ _____

8) $10 + (-16) =$ _____

9) $3 + (-20) =$ _____

10) $(-8) - 12 =$ _____

11) $(-15) - (-10) =$ _____

12) $(-19) + 18 =$ _____

13) $17 + 13 =$ _____

14) $11 - (-9) =$ _____

15) $16 - 0 =$ _____

16) $(-7) + (-14) =$ _____

Adding and Subtracting Integers

Simplify.

1) $71 + (-43) =$ _____

2) $(-64) + 15 =$ _____

3) $(-33) + (-56) =$ _____

4) $86 + 24 =$ _____

5) $68 - 90 =$ _____

6) $(-15) - (-72) =$ _____

7) $(-28) - 47 =$ _____

8) $53 - (-41) =$ _____

9) $(-9) + (-91) =$ _____

10) $(-77) + 36 =$ _____

11) $18 - (-83) =$ _____

12) $31 - 95 =$ _____

13) $(-59) - 25 =$ _____

14) $(-92) - (-12) =$ _____

15) $74 + 42 =$ _____

16) $8 + (-54) =$ _____

Missing Integers

Fill in the missing integer(s).

1) $(-12) + \underline{\hspace{2cm}} = 0$

2) $7 + \underline{\hspace{2cm}} = 0$

3) $\underline{\hspace{2cm}} - 10 = 0$

4) $2 - \underline{\hspace{2cm}} = 0$

5) $(-19) - \underline{\hspace{2cm}} = 0$

6) $\underline{\hspace{2cm}} - 5 = 0$

7) $11 - \underline{\hspace{2cm}} = 0$

8) $(-8) + \underline{\hspace{2cm}} = 0$

9) $\underline{\hspace{2cm}} + (-14) = 0$

10) $\underline{\hspace{2cm}} - (-1) = 0$

11) $6 + \underline{\hspace{2cm}} = 0$

12) $\underline{\hspace{2cm}} + 13 = 0$

13) $\underline{\hspace{2cm}} + 20 = 0$

14) $9 - \underline{\hspace{2cm}} = 0$

15) $(-3) - \underline{\hspace{2cm}} = 0$

16) $\underline{\hspace{2cm}} + (-16) = 0$

Missing Integers

Fill in the missing integer(s).

1) $(-12) + \underline{\hspace{2cm}} = 3$

2) $8 - \underline{\hspace{2cm}} = 18$

3) $\underline{\hspace{2cm}} + (-6) = -20$

4) $\underline{\hspace{2cm}} - 17 = -1$

5) $16 - \underline{\hspace{2cm}} = 18$

6) $3 + \underline{\hspace{2cm}} = -16$

7) $\underline{\hspace{2cm}} - (-3) = -6$

8) $\underline{\hspace{2cm}} + (-4) = -4$

9) $\underline{\hspace{2cm}} + 6 = 17$

10) $(-1) - \underline{\hspace{2cm}} = -10$

11) $18 - \underline{\hspace{2cm}} = 14$

12) $\underline{\hspace{2cm}} + 5 = -15$

13) $\underline{\hspace{2cm}} + (-15) = -5$

14) $4 - \underline{\hspace{2cm}} = -9$

15) $\underline{\hspace{2cm}} - 20 = -31$

16) $1 + \underline{\hspace{2cm}} = 13$

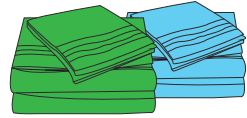
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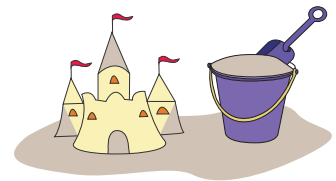
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Subtracting Like Fractions

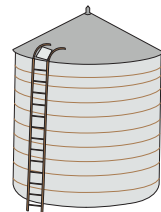
- 1) Jennifer visits the store to buy $\frac{1}{9}$ of a yard of a blue fabric and $\frac{4}{9}$ of a yard of green fabric to make new pillow covers for a doll house. How many more yards of green fabric did Jennifer buy than blue fabric?



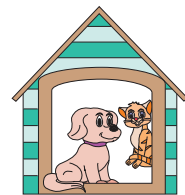
- 2) Keith and Lindsay are building sandcastles on the seashore. Keith collects $7\frac{1}{4}$ cups of sand in his bucket and Lindsay scoops up $3\frac{3}{4}$ cups of sand in her bucket. How many more cups of sand did Keith collect than Lindsay?



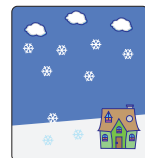
- 3) A water tank is five-sixth full. After a couple of hours, the capacity of the tank is reduced by one-sixth. What fraction of the water tank is now filled with water?



- 4) Nine-fifth of the animals in a rescue home are dogs and $\frac{7}{5}$ th of them are cats. How many more dogs are there than the cats?



- 5) Raleigh, NJ received $9\frac{2}{7}$ inches of snowfall on Christmas Eve. The town received $4\frac{5}{7}$ inches of snow on New Year's Day. How many more inches did it snow on Christmas Eve than New Year's Day?

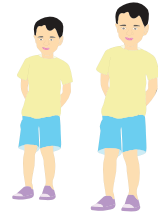


Subtracting Unlike Fractions

- 1) Brooke watched a YouTube video that featured a Filipino chicken recipe. She bought $5\frac{3}{4}$ pounds of chicken from the local store. If the recipe called for $2\frac{1}{2}$ pounds of chicken, how many pounds of chicken remain unused?



- 2) Noah stood $55\frac{2}{3}$ inches tall on his tenth birthday. If he stood $58\frac{1}{2}$ inches on his eleventh birthday, how much taller has Noah grown over the past year?



- 3) Macy jogged and walked a total of $\frac{37}{9}$ miles in Central Park today. If she jogged a distance of $\frac{8}{3}$ miles, how many miles did Macy walk?



- 4) Dave and Sam take a tour of a chocolate factory in Hershey, PA. Dave bought $\frac{11}{20}$ pounds of chocolate and Sam purchased $\frac{7}{10}$ pounds of chocolates. How many more pounds of chocolate did Sam purchase than Dave?

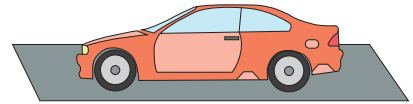


- 5) Amelia took an online practice test and attempted two-thirds of the total number of questions. If one-sixth of the questions attempted were incorrect, what fraction of questions did she get right?



Multiplying Fractions

- 1) Adam needs to drive a distance of 372 miles to New York to attend a seminar. He stops over to grab a quick bite after he covers one-third the total distance. How many more miles does Adam need to ride to reach his destination?



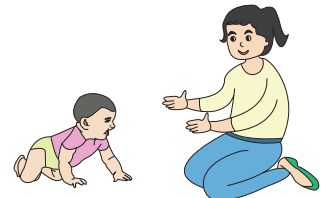
- 2) Caleb's vegetable garden yielded $23\frac{1}{2}$ pounds of bell peppers. He gave two-thirds of the total yield to his neighbor, Jacob. How many pounds of bell peppers did Jacob receive?



- 3) The Valley High School printed 445 tickets for the school play in Spring. Three-fifth of tickets were sold out by January. How many tickets remain to be sold?



- 4) Lilian, a teenager, earned \$585 in a fortnight by babysitting for her friends and family. She spent $\frac{5}{9}$ th of the money earned to buy a laptop. How much money is Lilian left with?



- 5) Abigail has lovely, lustrous black hair that is 32 inches long. She asks the hairdresser to cut off one-fourth the total length of her hair. How long will Abigail's hair measure after the haircut?



Dividing Fractions

- 1) A glass pitcher holds $6\frac{1}{3}$ cups of pineapple juice. Tracy transfers the juice in equal amounts into 3 bottles. How many cups of juice will each bottle contain?



- 2) A recipe calls for quarter of a cup of sugar to make a chocolate mug brownie. How many mugs of brownies can be made with $1\frac{3}{4}$ cups of sugar?



- 3) Sean and his sister, Betty equally mow $\frac{8}{9}$ th the total area of a lawn. What fraction of the total area did each of them mow?



- 4) Jane eats two-thirds of a cup of cereal every day for breakfast. If the box contains a total of 24 cups, how many days will Jane take to finish the cereal box?



- 5) Lucy bought $9\frac{1}{3}$ pounds of blueberries from the farmer's market and placed them in equal quantities in 7 bags. How many pounds of blueberries does each bag hold?

