

Grade 7 Whole Numbers

1. Find the final product.

$$\begin{array}{r} 61\Box \\ \times \Box 5\Box \\ \hline \end{array}$$


$$4\Box 12$$

$$\Box 0\Box 0$$

$$\begin{array}{r} 1\Box 32 \\ \hline \end{array}$$

$$15\Box, 3\Box 2$$

2. Add across. Subtract down.
Find the number in the circle.

-8	14	
-12	17	
		

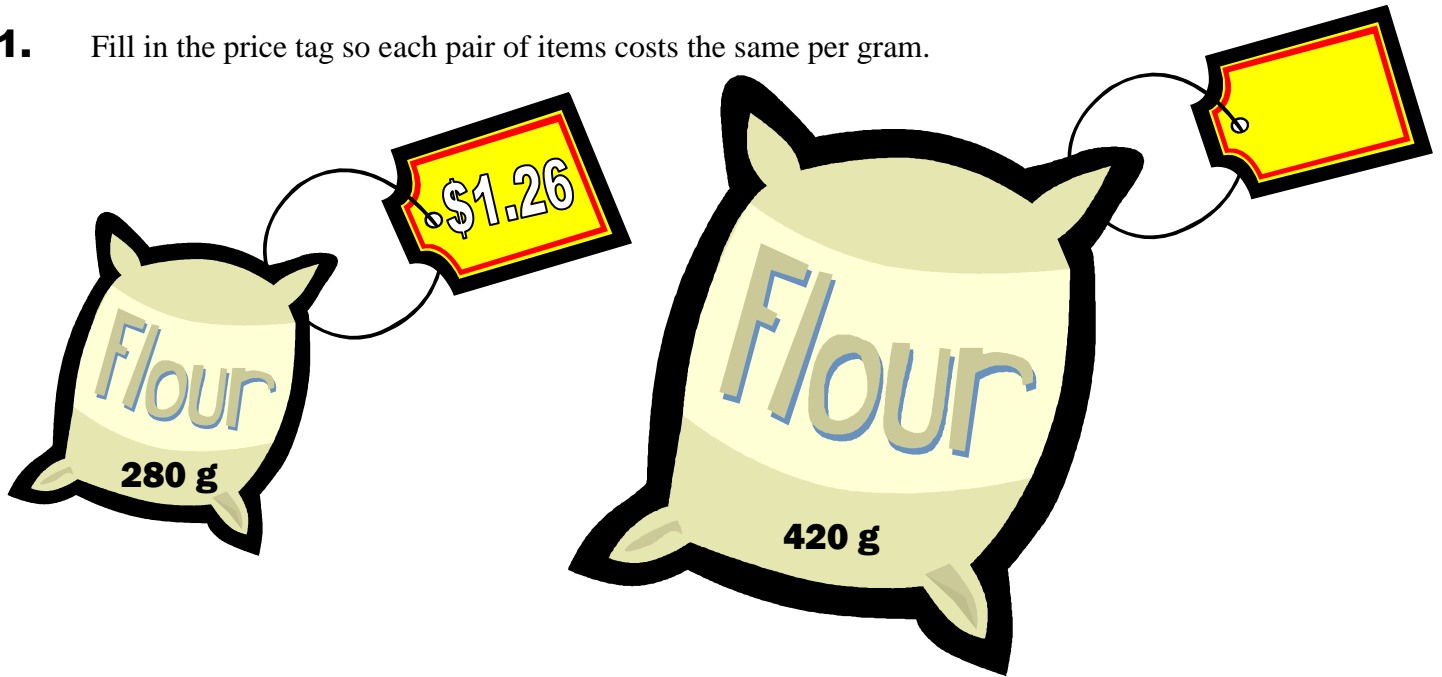
3. What is the sum of the whole numbers from 1 to 100?
(including 1 and 100)

4. Figure out the pattern and find the number in the last space.

3, 2, 5, _____, _____, 19, _____, 50

Grade 7 Measurement

1. Fill in the price tag so each pair of items costs the same per gram.



2. 5 half-gallons and 1 qt = _____ pts.



3. On a scale drawing, a line 5 cm long represents a distance of 40 meters. A line $6\frac{3}{4}$ cm long represents a distance of how many meters?

4. How much higher is the number 1 ranked mountain than the number 6 ranked mountain?



Mountain	Country	Height (ft)	Rank
Annapurna	Nepal	26, 496	
Dhaulagiri	Nepal	26, 790	
Everest	Nepal-Tibet	29, 028	
Godwin Austen	India	28, 250	
Gosainthan	Tibet	26, 289	
Kanchenjunga	Nepal-Sikkim	28, 168	
Makalu	Tibet-Nepal	27, 790	
Nanga Parbat	India	26, 660	

Grade 7 Fractions

1. A shirt that sells for \$12.45 is on sale for $\frac{2}{3}$ of the regular price. What is the sale price?



2. Mark the one that doesn't belong.

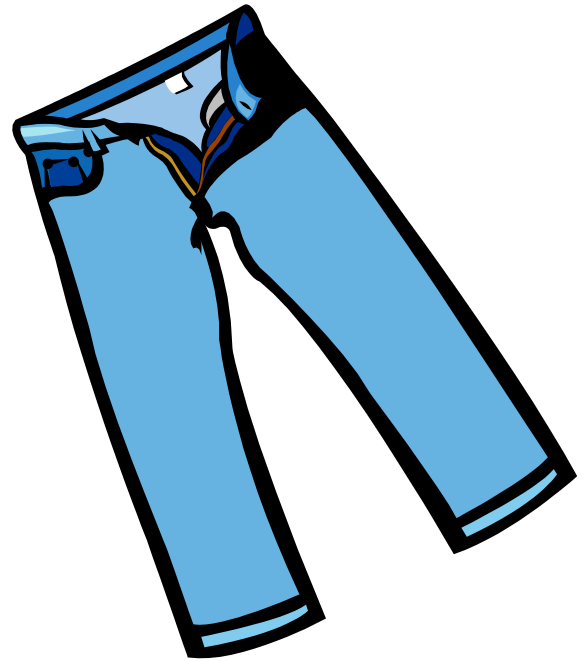
$$\frac{3}{4} \rightarrow 1\frac{1}{3}$$

$$\frac{3}{5} \rightarrow 1\frac{2}{5}$$

$$\frac{1}{3} \rightarrow 3$$

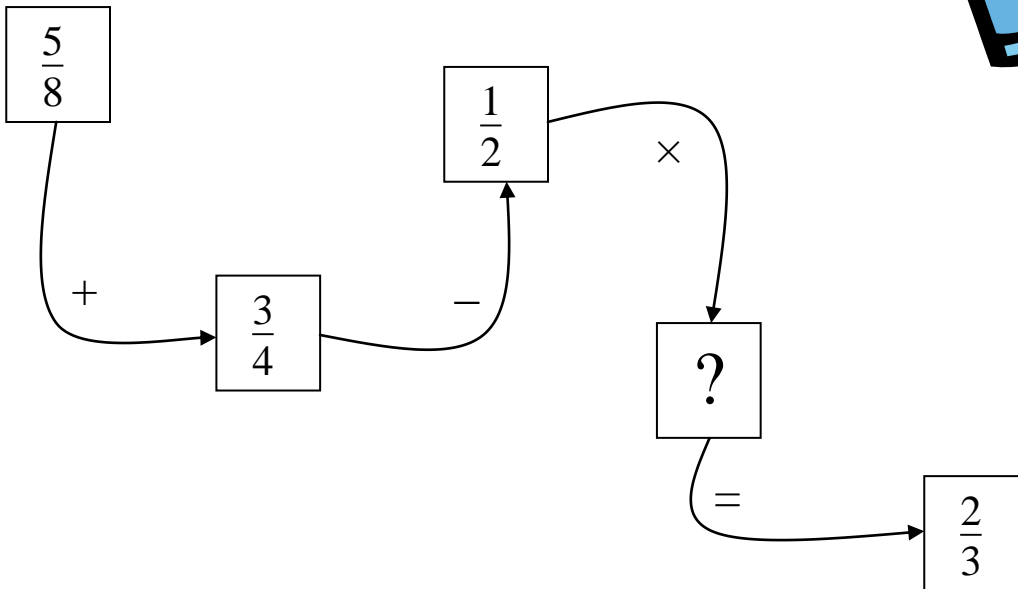
$$\frac{5}{8} \rightarrow 1\frac{3}{5}$$

3. Suppose that you have \$20. You buy some \$22.20 jeans that are on sale for $\frac{1}{3}$ off. How much money would you have left?



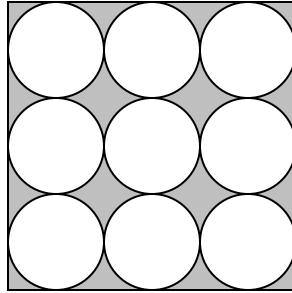
4. What fraction is missing?

START

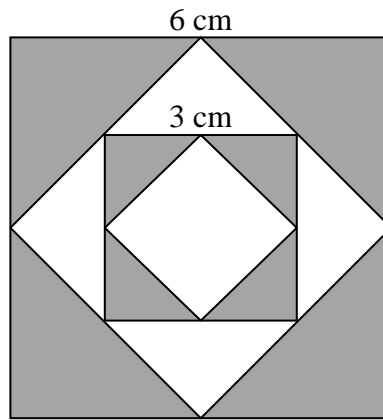


Grade 7 Geometry

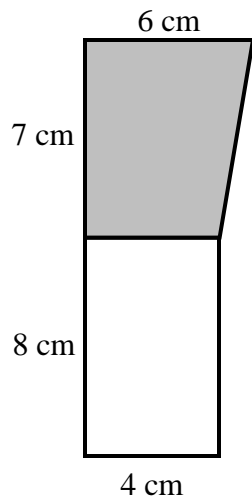
- 1.** Nine circles, each with a 4 cm radius, fit over the square.
How much greater than the combined area of the circles is the area of the square?
Use 3.14 as an approximation for π .



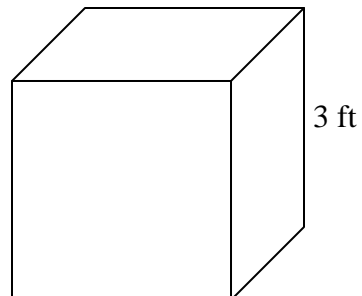
- 2.** Find the area of the shaded region.
Assume each figure is a square.



- 3.** Find the area of the shaded part of the figure to the nearest square centimeter

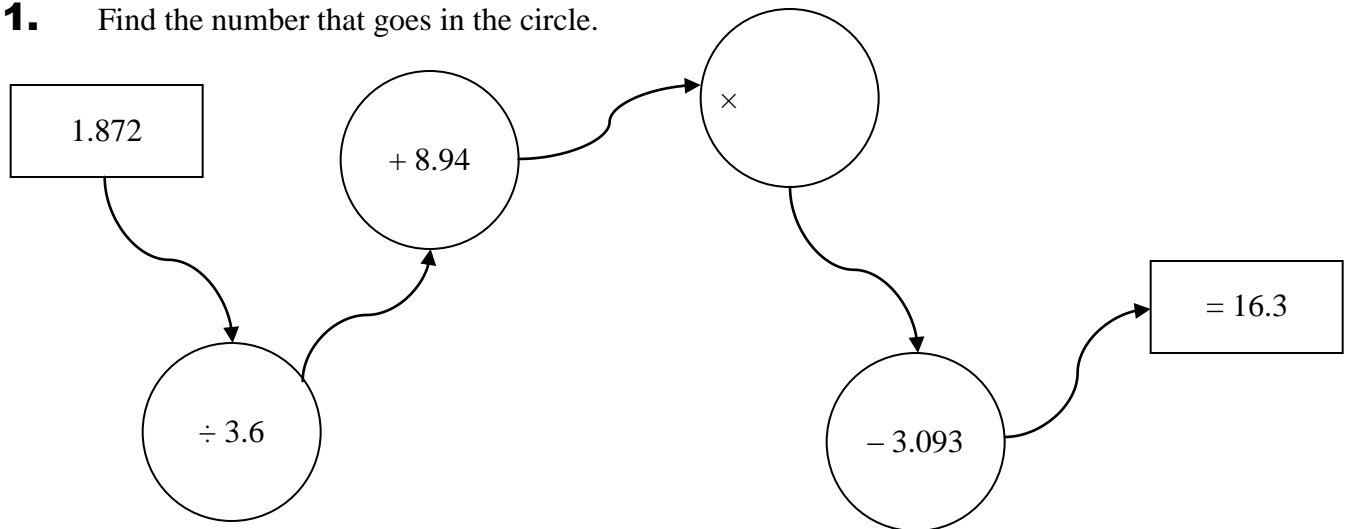


- 4.** Find the volume of this cube in square inches.



Grade 7 Decimals & Percents

1. Find the number that goes in the circle.



2. Find the simple interest to the nearest cent from the table below.

Principal	Annual Rate	Time	Interest
\$1000	8.5%	6 months	



3. To find a pitcher's earned run average (ERA) for each season, you multiply the number of runs he allowed by 9 and then divide that product by the number of innings he pitched. What is Timmy's ERA when he allows 74 runs in 200 innings pitched?



4. Find the value of x.

$$[(198 \times 5.6) - x] \div 3.2 + 4.32 = 2432$$

Grade 7 Brain Teasers

1. Three consecutive odd numbers have a sum of 27.
What is the product of these 3 numbers?



2. You toss a quarter, a dime, a nickel, and a penny all at once.
What is the probability that more than one lands heads up?

3. How many different three digit numbers can be made from four different single digits?



4. How many times will the minute hand pass the hour hand between 3:00 am and 3:00 pm?



Grade 7 Whole Numbers (ANSWERS)

1. Find the final product.

$$\begin{array}{r} 61 \square \\ \times \square 5 \square \\ \hline \end{array}$$

$$4 \square 1 2$$


$$\square 0 \square 0$$

$$1 \square 3 2$$

$$1 5 \square, 3 \square 2$$

158, 312

2. Add across. Subtract down.
Find the number in the circle.

-8	14	
-12	17	
		

1

3. What is the sum of the whole numbers from 1 to 100?
(including 1 and 100)

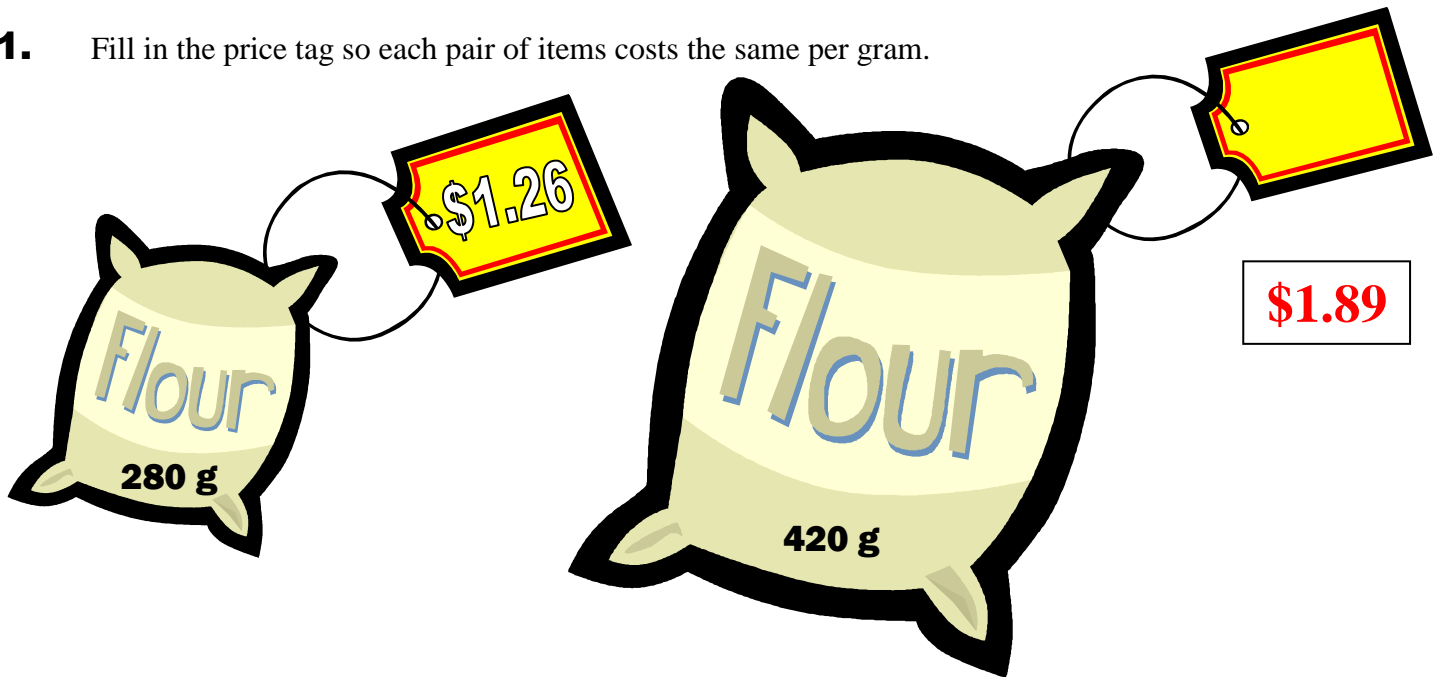
5050

4. Figure out the pattern and find the number in the last space.

3, 2, 5, _____, _____, 19, 31, 50

Grade 7 Measurement (ANSWERS)

1. Fill in the price tag so each pair of items costs the same per gram.



2. 5 half-gallons and 1 qt = pts.



3. On a scale drawing, a line 5 cm long represents a distance of 40 meters. A line $6\frac{3}{4}$ cm long represents a distance of how many meters?

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Grade 7 Fractions (ANSWERS)



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\$8.30

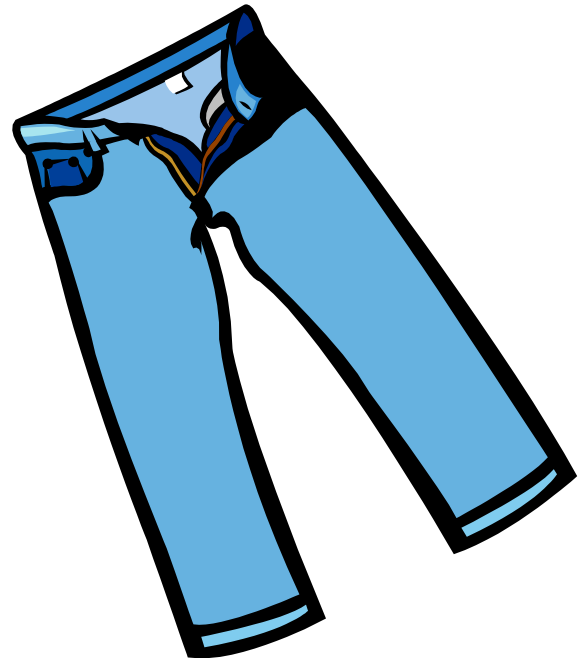
2. Mark the one that doesn't belong.

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

$$\frac{3}{5} \rightarrow 1\frac{2}{5}$$

$$\frac{1}{3} \rightarrow 3$$

$$\frac{5}{8} \rightarrow 1\frac{3}{5}$$

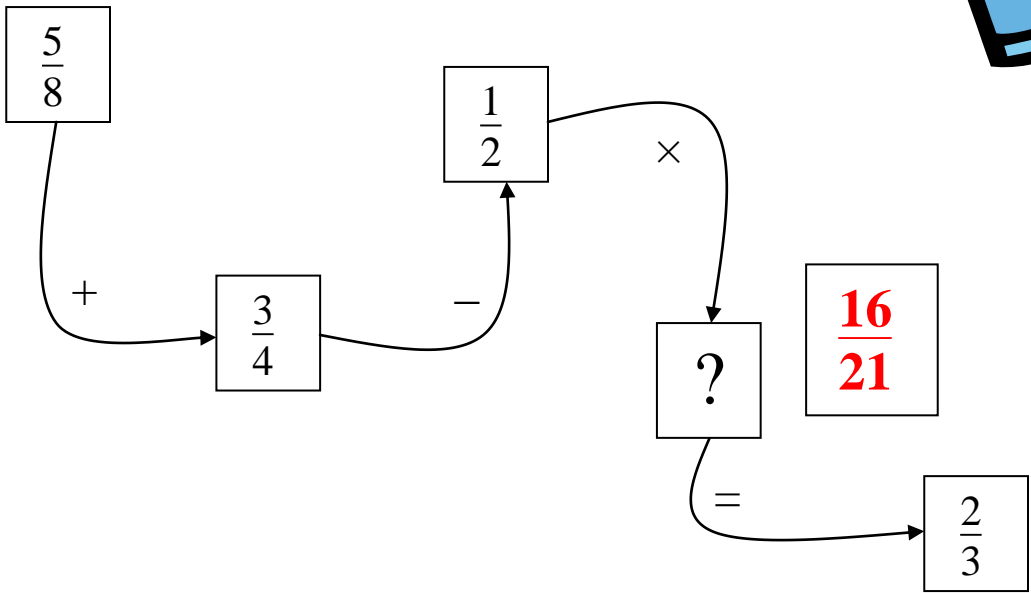


3. Suppose that you have \$20. You buy some \$22.20 jeans that are on sale for $\frac{1}{3}$ off. How much money would you have left?

\$5.20

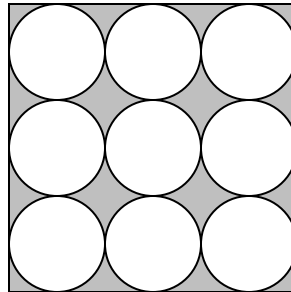
4. What fraction is missing?

START



Grade 7 Geometry (ANSWERS)

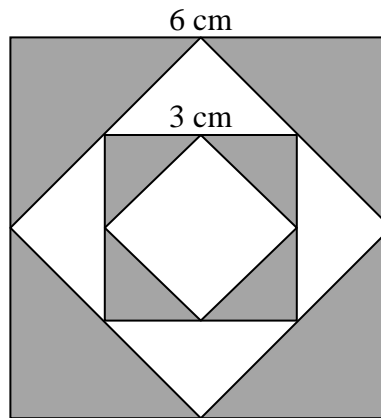
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How much greater than the combined area of the circles is the area of the square?
Use 3.14 as an approximation for π .



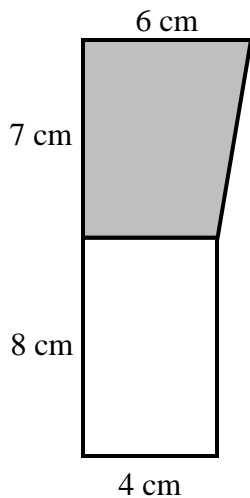
123.84 cm²

2. Find the area of the shaded region.
Assume each figure is a square.

22.5 cm²

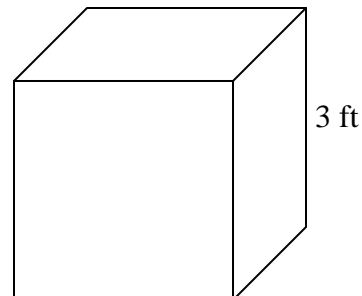


3. Find the area of the shaded part of the figure to the nearest square centimeter



35 cm²

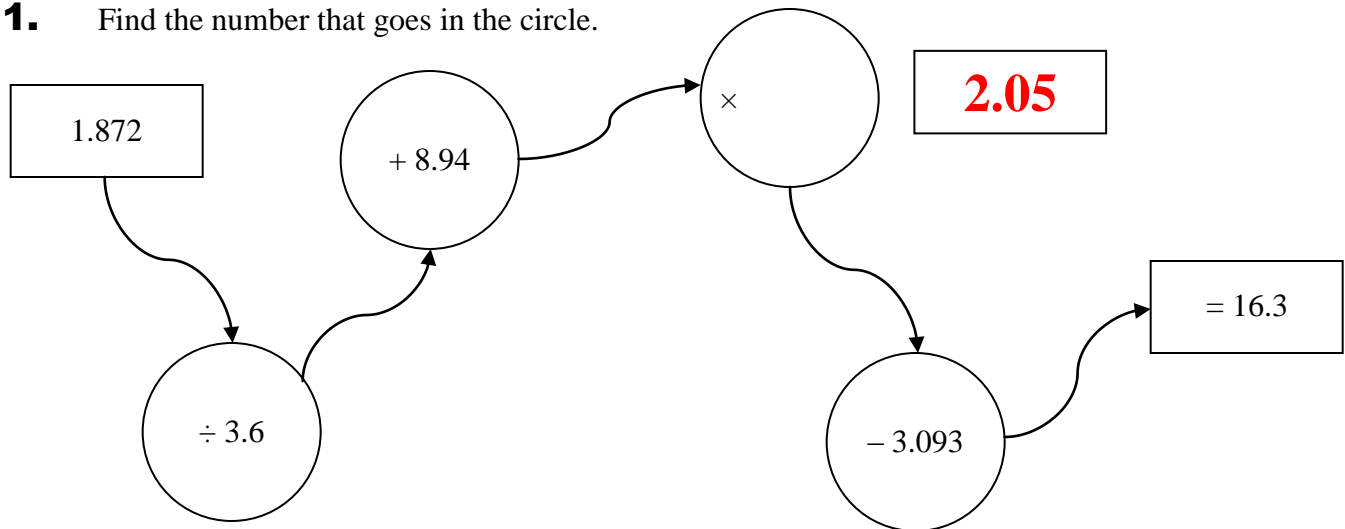
4. Find the volume of this cube in square inches.



46,656 in³

Grade 7 Decimals & Percents (ANSWERS)

1. Find the number that goes in the circle.



2. Find the simple interest to the nearest cent from the table below.

Principal	Annual Rate	Time	Interest
\$1000	8.5%	6 months	

\$42.50



3. To find a pitcher's earned run average (ERA) for each season, you multiply the number of runs he allowed by 9 and then divide that product by the number of innings he pitched. What is Timmy's ERA when he allows 74 runs in 200 innings pitched?

3.33

4. Find the value of x.

$$[(198 \times 5.6) - x] \div 3.21 + 4.32 = 2432$$

46.68



Grade 7 Brain Teasers (ANSWERS)

1. Three consecutive odd numbers have a sum of 27.
What is the product of these 3 numbers?

693



2. You toss a quarter, a dime, a nickel, and a penny all at once.
What is the probability that more than one lands heads up?

$\frac{11}{16}$

3. How many different three digit numbers can be made from four different single digits?



24

4. How many times will the minute hand pass the hour hand between 3:00 am and 3:00 pm?



12