

Math

Grade 5

Escape room math: open 4 locks

Solve fraction and decimal puzzles to open each lock and escape the classroom.



I can add and subtract fractions and work with decimals.



1 Lock 1: fractions

Add or subtract. Write the answer in simplest form.



1. $\frac{1}{2} + \frac{1}{4} =$ _____

2. $\frac{2}{3} + \frac{1}{6} =$ _____

3. $\frac{3}{5} - \frac{1}{10} =$ _____

4. $\frac{7}{8} - \frac{1}{4} =$ _____

2 Lock 2: decimals

Write $>$, $<$ or $=$ in each circle.

0.6



0.59

1.25



1.3

0.40



0.4

2.08



2.8

3 Lock 3: powers of 10

Multiply each number by 10 and by 100.

Number	$\times 10$	$\times 100$
0.7		
1.25		
3.04		

4 Lock 4: final code

Circle the right answer.

1. The code is $3.5 + 2.75$. What is it?

A 5.25

B 6.25

C 6.3

2. The key number is $\frac{3}{4}$ of 20. What is it?

A 5

B 15

C 16

3. Which is equal to 0.25?

A $\frac{1}{4}$

B $\frac{2}{5}$

C $\frac{25}{10}$

5

**Lock 5: multiply and divide**

Solve each problem. Write fractions in simplest form.

1. $0.4 \times 3 =$ _____

2. $2.5 \times 6 =$ _____

3. $\frac{1}{3} \times 12 =$ _____

4. $\frac{2}{5} \times 10 =$ _____

5. $4.8 \div 10 =$ _____

6. $\frac{3}{4} \times \frac{1}{2} =$ _____

7. $6 \div \frac{1}{2} =$ _____

6

**Lock 6: true or false**

Circle True or False.

1. 0.5 is equal to $\frac{1}{2}$.

True

False

2. $\frac{2}{4} + \frac{1}{4} = \frac{3}{8}$

True

False

3. $0.3 \times 10 = 3$

True

False

4. 1.09 is greater than 1.1.

True

False

5. $5 \div \frac{1}{5} = 25$

True

False

6. $\frac{3}{6}$ is in simplest form.

True

False

7 Lock 7: fraction to decimal

Draw a line from each fraction to the equal decimal.

☐ $\frac{1}{2}$ •

• A. 0.75

☐ $\frac{1}{5}$ •

• B. 0.03

☐ $\frac{3}{4}$ •

• C. 0.5

☐ $\frac{7}{10}$ •

• D. 0.2

☐ $\frac{3}{100}$ •

• E. 0.7

8 Lock 8: beat the clock

Read each problem and circle the right answer.

1. The escape room costs \$18.75 per person. How much do 4 friends pay?

A \$72.00

B \$75.00

C \$76.50

2. You have 60 minutes. You have used $\frac{3}{5}$ of the time. How many minutes are left?

A 24

B 36

C 40

3. A clue says: $1.5 \times 4 - 0.5$. What is the number?

A 4.5

B 5.5

C 6

4. Which number is the largest?

A 0.7

B $\frac{5}{8}$

C 0.68

9 Build a lock

Write your own lock puzzle using a fraction or a decimal. Write the answer on the back.

How did it go?



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Answer key

Escape room math: open 4 locks

Solve fraction and decimal puzzles to open each lock and escape the classroom.



I can add and subtract fractions and work with decimals.



1



Lock 1: fractions

Add or subtract. Write the answer in simplest form.



1. $\frac{1}{2} + \frac{1}{4} = \underline{\frac{3}{4}}$

2. $\frac{2}{3} + \frac{1}{6} = \underline{\frac{5}{6}}$

3. $\frac{3}{5} - \frac{1}{10} = \underline{\frac{1}{2}}$

4. $\frac{7}{8} - \frac{1}{4} = \underline{\frac{5}{8}}$

2 Lock 2: decimals

Write $>$, $<$ or $=$ in each circle.

0.6

$>$

0.59

1.25

$<$

1.3

0.40

$=$

0.4

2.08

$<$

2.8

3 Lock 3: powers of 10

Multiply each number by 10 and by 100.

Number	$\times 10$	$\times 100$
0.7	7	70
1.25	12.5	125
3.04	30.4	304

4 Lock 4: final code

Circle the right answer.

1. The code is $3.5 + 2.75$. What is it?

A 5.25

B 6.25

C 6.3

2. The key number is $\frac{3}{4}$ of 20. What is it?

A 5

B 15

C 16

3. Which is equal to 0.25?

A $\frac{1}{4}$

B $\frac{2}{5}$

C $\frac{25}{10}$

5 **Lock 5: multiply and divide**

Solve each problem. Write fractions in simplest form.

1. $0.4 \times 3 =$ 1.2

2. $2.5 \times 6 =$ 15

3. $\frac{1}{3} \times 12 =$ 4

4. $\frac{2}{5} \times 10 =$ 4

5. $4.8 \div 10 =$ 0.48

6. $\frac{3}{4} \times \frac{1}{2} =$ $\frac{3}{8}$

7. $6 \div \frac{1}{2} =$ 12

6 **Lock 6: true or false**

Circle True or False.

1. 0.5 is equal to $\frac{1}{2}$.

True

False

2. $\frac{2}{4} + \frac{1}{4} = \frac{3}{8}$

True

False

3. $0.3 \times 10 = 3$

True

False

4. 1.09 is greater than 1.1.

True

False

5. $5 \div \frac{1}{5} = 25$

True

False

6. $\frac{3}{6}$ is in simplest form.

True

False

7 Lock 7: fraction to decimal

Draw a line from each fraction to the equal decimal.

C $\frac{1}{2}$ •

D $\frac{1}{5}$ •

A $\frac{3}{4}$ •

E $\frac{7}{10}$ •

B $\frac{3}{100}$ •

• **A.** 0.75

• **B.** 0.03

• **C.** 0.5

• **D.** 0.2

• **E.** 0.7

8 Lock 8: beat the clock

Read each problem and circle the right answer.

1. The escape room costs \$18.75 per person. How much do 4 friends pay?

A \$72.00

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2. You have 60 minutes. You have used $\frac{3}{5}$ of the time. How many minutes are left?

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3. A clue says: $1.5 \times 4 - 0.5$. What is the number?

A 4.5

B 5.5

C 6

4. Which number is the largest?

A 0.7

B $\frac{5}{8}$

C 0.68

9 Build a lock

Write your own lock puzzle using a fraction or a decimal. Write the answer on the back.

Answers vary. Example: $\frac{2}{5} + \frac{3}{10} = ?$ Answer: $\frac{7}{10}$.

How did it go?



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