

MATH

5th Grade



CATCH AN ELF ESCAPE ROOM

PRINTABLE • GOOGLE • WEBSCAPE™





Let's go!

Dear Student,

With the holidays so close, and so many toys to be cobbled, You-Know-Who needs every elf back in the workshop! But where could the last one be? If you want to catch an elf, you'll have to think like an elf! Follow the trail that passes through every elf's favorite things, and you're sure to find the elf you're looking for!

You must follow the trail and find these 4 items to find the missing elf:

1. Cookies
2. Snow
3. Sled
4. Fireplace

After each challenge, add the item to Santa's workshop so the toys can be finished on time!

Sincerely,

Head Elf

Find the Missing Elf!

Students won't realize they are practicing important math skills! They will be immersed in the storytelling and our original videos as they complete math challenges.

Learn more!



4 Mathematics Challenges

- Challenges focused on important math skills
- Each challenge takes about 20-30 minutes

Learn more!

Challenge #1



Scan the QR code or click [here](#) to view the video



- Solve each order of operations problem.
- Record answers on your brochure.
- Check your answers in the Catch an Elf Decoder.
- Add the cookie to the workshop.
- Scan the QR code in the corner of this page.
- Move on to the challenge #2.

- Find the expression with the same value as the number below.
22
a. $3 \times 2 + (3 + 4)$
b. $3 \times (2 + 3) + 4$
c. $3(2 \times 3) + 4$
d. $3 \times 2(3 + 4)4$
- Shelly the elf is wrapping science kits. There are 360 science kits. First, Shelly must find the expression below that equals the number of science kits you help her?
360
a. $4 + 20 + 30 - 15$
b. $(4 + 20) \times 30 - 15$
c. $4(20 + 30) - 15$
d. $(4 + 20) \times (30 - 15)$
- Circle the correct statement that describes the expression.
 $(9 - 3) \times 25$
a. twenty-five times three, minus nine
b. the difference between nine and three, times twenty-five
c. take three from nine and add twenty-five
d. twenty-five times six
- Find which number makes the equation true.
 $((54 \div 9) \times 3) = ?$
a. 5
b. 6
c. 9
d. 7
- Mrs. Claus needs to buy carpet for the living room. The room is ten feet by twelve feet. How much carpet does she need?
a. 10 sq ft
b. 120 sq ft
c. 130 sq ft
d. 140 sq ft

Challenge #2



Scan the QR code or click [here](#) to view the video.



- Solve each place value problem.
 - Record answers on your brochure.
 - Check your answers in the Catch an Elf Decoder.
 - Add the snowflake to the workshop.
 - Scan the QR code in the corner of this page.
 - Move on to challenge 3.
- Find the value of the exponent below.
 10^5
a. 1,000,000
b. 100,000
c. 1,000
d. 10,000
 - Mrs. Claus is buying carpet for the living room. The room is ten feet by twelve feet. How much carpet does she need?
a. 10 sq ft
b. 120 sq ft
c. 130 sq ft
d. 140 sq ft
 - Jerad the elf needs to find the product of $10^3 \times 321$. He says he can find it by multiplying 100 times one of the numbers below. Which number below would make him correct?
a. 3,210
b. 321
c. 32,100
d. 3210
 - Which answer shows the number below rounded to the nearest hundredth?
682.145
a. 682.14
b. 682.20
c. 682.25
d. 682.12
 - Shelly the elf counted 360 science kits. First, she must find the expression below that equals the number of science kits you help her?
360
a. $4 + 20 + 30 - 15$
b. $(4 + 20) \times 30 - 15$
c. $4(20 + 30) - 15$
d. $(4 + 20) \times (30 - 15)$

Challenge #3



Scan the QR code or click [here](#) to view the video.



- Solve each fractions problem.
 - Record answers on your brochure.
 - Check your answers in the Catch an Elf Decoder.
 - Add the sled to the workshop.
 - Scan the QR code in the corner of this page.
 - Move on to the challenge #4.
- Two elves were making Christmas cookies for Santa. They used $\frac{3}{4}$ of a cup of sugar in the batter and $\frac{3}{8}$ of a cup of sugar in the frosting. How much sugar did they use in all?
a. $\frac{3}{12}$ cup b. $\frac{6}{12}$ cup c. $1\frac{1}{4}$ cups d. $1\frac{1}{8}$ cups
 - On Monday, Eli the elf used $\frac{7}{12}$ of a roll of wrapping paper. On Tuesday, he used $\frac{5}{6}$ of another roll. How much wrapping paper did he use altogether?
a. $\frac{12}{12}$ roll b. $1\frac{5}{12}$ rolls c. $1\frac{5}{6}$ rolls d. $\frac{12}{10}$ roll
 - Jerad needs to find the difference between the fractions. Can you help him?
 $\frac{8}{9} - \frac{2}{3}$
a. $\frac{10}{12}$ b. $\frac{2}{3}$ c. $\frac{2}{9}$ d. $\frac{6}{9}$
 - Santa asked Bruno to make 3 mugs of hot cocoa. He needed a quarter of a cup of whipped cream for each mug. How much whipped cream did he need in all? Use multiplication to solve.
a. 3 cups b. $\frac{3}{12}$ cup c. $\frac{1}{12}$ cup d. $\frac{3}{4}$ cup
 - One little elf walked a total of $\frac{3}{10}$ of a mile back and forth to work each day. How many miles did he travel from Monday to Saturday? Use multiplication to solve.
a. $\frac{9}{10}$ mile b. $1\frac{3}{10}$ miles c. $1\frac{4}{5}$ miles d. $1\frac{9}{5}$ miles
 - Bernice needed $\frac{4}{16}$ yards of ribbon to wrap one shiny new bicycle. How many yards of ribbon does she need to wrap 12 bicycles? Use multiplication to solve.
a. 40 yds b. 50 yds c. 60 yds d. 300 yds



Challenge #4

1. Solve each volume problem.
2. Record answers on your brochure.
3. Check your answers in the Catch an Elf Decoder.
4. Add the elf to the workshop.
5. Scan the QR code in the corner of the next page.
6. Find the fireplace and catch the elf!



1. Jerad wanted to wrap a racecar in this box. Help him find the volume.

8 centimeters
12 centimeters
4 centimeters

10.75 cm
7 cm
5 cm

 - a. 348 cubic centimeters
 - b. 384 cubic centimeters
 - c. 96 cubic centimeters
 - d. 24 cubic centimeters
2. Mrs. Claus needed to measure this box to see if it would fit the gift she made for Mr. Claus. Help her calculate the volume.

10.75 cm
7 cm
5 cm

 - a. 376.25 cm³
 - b. 376.75 cm³
 - c. 376.50 cm³
 - d. 376.00 cm³
3. Four elves are arguing over the size of this box. Look at the calculations each elf gave for the volume of box. Who is the correct elf?

10.75 cm
7 cm
5 cm

 - a. The first elf said it is 74,98.7 cubic inches
 - b. The second 74,98.8 cub
 - c. The third el 74,98.9 cub

4 Mathematics Challenges

- Themed videos integrated throughout the Escape Room to keep kids engaged.
- Students work in groups, partners, or independently.



4. Eli placed one small gift on top of a larger gift. Which expression correctly represents the combined volume of the two boxes?

8 inches
8 inches
7.25 inches
5 inches
16.5 inches

8 inches
5 inches
3 inches

10.5 feet
3 feet
10.5 feet
3 feet
15 feet

- a. $(8 \times 5 \times 8) + (7.25 \times 16 \times 5)$
- b. $(7.25 + 5 + 16) \times (7.25 \times 8 \times 5)$
- c. $(8 \times 14.5 \times 5) + (16 \times 7.25 \times 5)$
- d. $(7.25 \times 5 \times 16) + (7.25 \times 8 \times 5)$

If the volume of this gift box is 64 cubic inches, what is the missing measurement?

8 inches
5 inches
?

- a. 5 inches
- b. 4 inches
- c. 4.5 inches
- d. 3 inches

Who wrapped a chair that he will give as a gift to Bernice. If the volume of the package is 4125 cubic feet, what is the missing measurement?

10.5 feet
3 feet
?

- a. 35 feet
- b. 3 feet
- c. 2 feet
- d. 15 feet

Scan the QR code or click here to view the video.

Learn more!



Challenge #1



1. Solve each order of operations problem.
2. Record answers on your brochure.
3. Check your answers in the Catch an Elf Decoder.
4. Add the cookie to the workshop.
5. Scan the QR code in the corner of this page.
6. Move on to the challenge #2.

1. Find the expression with the same value as the number below:

22

- a. $3 \times 2 + (3 + 4)$
- b. $3 \times (2 + 3) + 4$
- c. $3(2 \times 3) + 4$
- d. $3 \times 2(3 + 4)4$

2. Shelly the elf is wrapping science kits. There are 360 science kits. She must find the expression that equals the number of kits she has to wrap. You help her?

360

- a. $4 + 20 + 30$
- b. $(4 + 20) \times 30$
- c. $4(20 + 30)$
- d. $(4 + 20) \times 30$

1.

Order of Operations

Find the expression with the same value as the number below.

22



- a. $3 \times 2 + (3 + 4)$
- b. $3 \times (2 + 3) + 4$
- c. $3(2 \times 3) + 4$



1. Find the expression with the same value as the number below:

22

$3 \times 2 + (3 + 4)$

$3 \times (2 + 3) + 4$

$3(2 \times 3) + 4$




$3 \times 2(3 + 4)4$

3 Versions

- Print
- Google Slides
- Webscape™ (Our most popular experience)

Learn more!



	PDF 	Google Slides 	Webscape™ 
Format Type	Printable	Digital	Digital
Device	N/A	Any Device	Any Device
Required Prep	Print & Go	Copy & Share	Zero Prep
Student Answers	Printable Answer Pamphlet	Google Sheets Decoder Tool	Integrated Challenge Hub
Self Correcting	Includes Answer Key	Self Correcting	Self Correcting
Custom Videos	QR Codes	Embedded You Tube	Embedded
Audio Readings	N/A	No Audio Readings	Contains Audio Readings
Navigation	N/A	Student Directed	Automatically Advancing
Extras	Early Finish Challenges	Movable Pieces	Interactive Animation

3 Versions

- Print
- Google Slides
- Webscape™ (Our most popular experience)

Learn more!



Print

- Cut and paste stamps for each challenge
- Easy to follow
- Optimal for group or partner work
- Recording brochure for answers
- Self-checking decoder
- Certificate of completion

Learn more!



Elf Decoder

Use the following codes for each challenge to solve the clues and move to the next challenge.

Challenge 1

question 1	question 2	question 3	question 4	question 5	question 6
a = I saw b = I c = I secretly d = I ran	a = another b = noticed c = followed d = after	a = elf b = the small c = head elf d = an elf	a = go in b = coming from c = to see if they d = to	a = Mrs. Claus's b = Santa's c = were in the d = see he could	a = house. b = office. c = bakeshop. d = tell me.

question 1	question 2	question 3	question 4	question 5	question 6
a = I b = The c = A snowman d = First I	a = asked b = high c = told me d = watched for	a = a b = flying c = too go d = kids.	a = snowman b = snowballs c = away d = then followed	a = where b = showed c = and chased d = them to	a = to go. b = them. c = me to it. d = the snow.

question 1	question 2	question 3	question 4	question 5	question 6
a = By b = I c = An elf	a = looking b =	a = the b = if he heard c = of a hill d = hill and	a = bottom of b = of c = of a hill d = kept looking	a = the hill b = the sled. c = and I followed. d = until I saw it.	

question 1	question 2	question 3	question 4	question 5	question 6
a = warm b = but I went in a c = of the fire d = single	a = fire b = room c = to his d = chimney	a = and found him. b = inside to find him. c = favorite room. d = twice.			

CATCH AN ELF RECORDING BROCHURE

Record your
challenge answers
along your
journey.



CHALLENGE 3



Answer	Code
1. b	I
2. c	Went
3.	
4.	
5.	
6.	

How did you find the
sled?

FIND THE ELF CHALLENGE

Jessica Jones

(name)

has successfully completed the challenges and caught the missing elf!

07/12

(Date)

Santa Claus

Scan the QR code or click [here](#) to view the video.



Oops!

You ate too many cookies and got a tummy ache!



YOU MUST STAY QUIET FOR 5 MINUTES. NO SPEAKING!

Print

- OOPS! Cards for differentiation

Learn more!



Webscape TM

Challenge #1

Click on each clue and answer the questions. Answer carefully, because the right answers will give you the clues to solve the challenge!
How did you find the cookies?

I

followed

Clue #3

Clue #4

Clue #5

Clue #6

- Most interactive experience
- Self correcting
- Embedded videos
- Embedded audio
- Animation
- Simple navigation

Learn more!



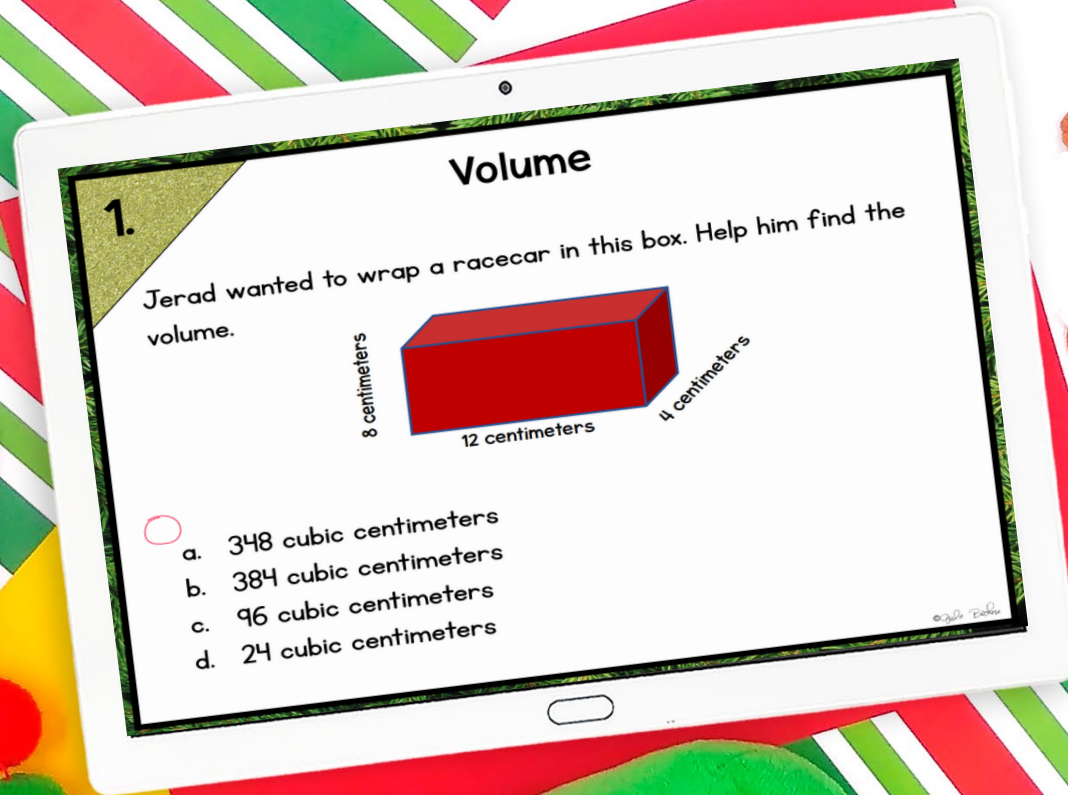
Webscape™

- No log ins or sign ups
- Works with any device that has an internet connection and web browser
- Zero prep! Just share the link with your students.

Learn more!



Google Slides



- One problem per slide
- Students drag to circle their answers

Learn more!



Google Slides

- Toggle to self-checking decoder
- Decoder will prompt at the end of each challenge whether students are correct or need to check their work.

Learn more!



Looking for More?

ESCAPE ROOM BUNDLE Math Skills

5th Grade



Math Escape Rooms

2nd Grade 3rd Grade 4th Grade 5th Grade


Telling Time: Time Machine Escape Room

ENGAGE VIDEO TELLY STORY

Print and Digital

Graphing Points Baking Escape Room

5th Grade



Dear Student,

We love baked goods of all kinds. The boss the best treats you can. Prove you can make the boss will let you go.

You must make these 4 items:

1. Donuts
2. Gingerbread cookies
3. Pie
4. Cake

After each challenge, add the item to the boss.

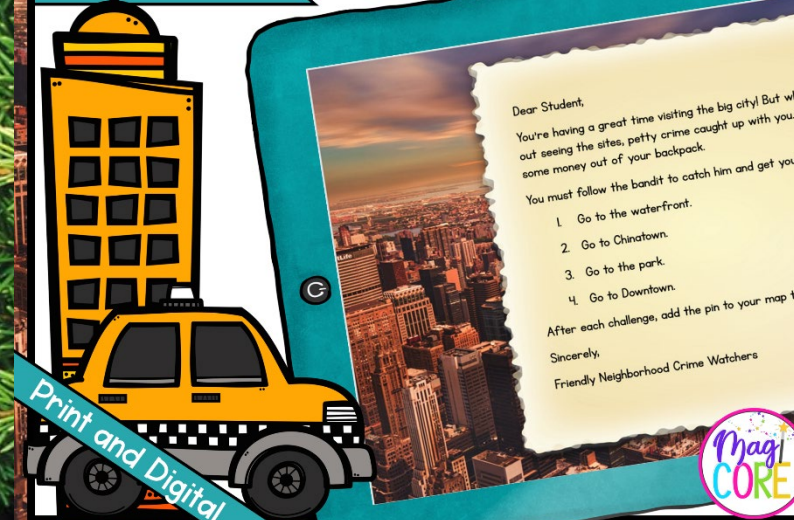
Sincerely,
The Cookie Criminal

Print and Digital

MagiCORE

MATH: Classify Shapes Catch the Bandit Escape Room

5th Grade



Dear Student,

You're having a great time visiting the big city! But while you're out seeing the sites, petty crime caught up with you. A bandit stole some money out of your backpack.

You must follow the bandit to catch him and get your money back.

1. Go to the waterfront.
2. Go to Chinatown.
3. Go to the park.
4. Go to Downtown.

After each challenge, add the pin to your map to catch the bandit.

Sincerely,
Friendly Neighborhood Crime Watchers

Print and Digital

MagiCORE