

MATH

4

4th Grade



CATCH AN ELF ESCAPE ROOM

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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

Challenge #1

1. Solve each multiplicative comparison 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.



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



1. Find the equation that represents the following statement:
Miguel the elf has 75 toy dinosaurs to wrap, which is 3 times as many as Roberto, who has 25.
 - a. $25 + 75 = 100$
 - b. $75 - 25 = 3$
 - c. $75 = 3 \times 25$
 - d. $25 \div 3 = 75$
2. Find the equation that represents the following statement:
The elf has 132 princess dolls to wrap, which is 11 times as many as Gigi, who has 12.
 - a. $11 \times 12 = 132$
 - b. $132 \div 11 = 12$
 - c. 11×12
 - d. $132 \div 11$
3. Find the equation that represents the following multiplicative comparison problem:
Kian built 32 doll houses, which is 8 times as many as Pedro built. How many doll houses did Pedro make?
 - a. $32 \div 8 = 4$
 - b. $32 \times 8 = 256$
 - c. $4 \times 8 = 32$
 - d. $32 \div 4 = 8$
4. Find the equation that represents the following multiplicative comparison problem:
Gigi built 15 snowflakes, which is 3 times as many as Kian built. How many snowflakes did Kian build?
 - a. $15 \div 3 = 5$
 - b. $15 \times 3 = 45$
 - c. $5 \times 3 = 15$
 - d. $15 \div 5 = 3$
5. Find the statement that represents the following equation:
 $64 = 8 \times 8$
 - a. Joey has 64 more toy cars than Mickey, who has 8.
 - b. Joey has 64 toy cars, which is 8 times as many as Mickey, who has 8 toy cars.
 - c. Mickey has 8 more cars than Joey, who has 64 toy cars.
 - d. Joey has 64 times as many toy cars as Mickey, who has 8 toy cars.

Challenge #2

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

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



1. Kian the elf must round 1,055 number to the nearest ten. Can you help him?
 - a. 1,055
 - b. 1,050
 - c. 1,060
 - d. 1,040
2. Now, Kian must round the same number to the nearest hundred. Which answer below should he choose?
 - a. 1,055
 - b. 1,050
 - c. 1,100
 - d. 1,060
3. Santa received 93,478 letters from children on Saturday. Round the number to the nearest thousand.
 - a. 93,000
 - b. 93,500
 - c. 93,480
 - d. 94,000
4. Roberto the elf is learning to write numbers in expanded form. Help him find the correct way to show the number below in expanded form.
45,299
 - a. $40,000 + 5,000 + 200 + 99$
 - b. $45,000 + 200 + 90 + 9$
 - c. $40,000 + 500 + 200 + 90 + 9$
 - d. $40,000 + 5,000 + 200 + 90 + 9$
5. 183,016 children asked Santa for a new bicycle. What is the correct expanded form of the number?
 - a. $100,000 + 80,000 + 300 + 10 + 6$
 - b. $100,000 + 80,000 + 3,000 + 10 + 6$
 - c. $100,000 + 80,000 + 3,000 + 100 + 6$
 - d. $100,000 + 8,000 + 300 + 10 + 6$
6. Mrs. Claus needs to find the correct combination of numbers that, when added together, will equal the number below. Which combination should she choose?
85,982
 - a. $78,626 + 5,417 + 1,940$
 - b. $1,939 + 78,626 + 5,417$
 - c. $5,417 + 78,626 + 1,939$
 - d. $1,939 + 5,471 + 78,626$

Learn more!



4 Mathematics Challenges

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

Learn more!



Challenge #3

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



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



Challenge #4

1. Solve each geometry 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 this page.
6. Find the fireplace and catch the elf!



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



1. Mona cut this shape out of wood to add to a block kit. What is the name of the shape?

- a. isosceles triangle
- b. equilateral triangle
- c. acute triangle
- d. scalene triangle



2. Mona also cut this shape out of wood for the block kit. She can't remember the name of the shape. Help her find the name of the shape.

3. Imani can't remember the name of the shape below. Help her find the correct name for the two-dimensional figure.

- a. rectangle
- b. parallelogram
- c. trapezoid
- d. Rhombus



4. Tari wants to learn facts about shapes so can remember their names. Help her find correct attributes that describe the parallelogram.

- a. 2 sets of parallel sides
- b. 2 sets of perpendicular sides
- c. 2 right angles
- d. all 4 sides are equal



Challenge #1

1. Solve each multiplicative comparison problem.
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3. Check your answers in the Catch an Elf Decoder.
4. Add the cookie to the workshop.
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6. Move on to the challenge #2.



1. Find the equation that represents the following statement:
Miguel the elf has 75 toy dinosaurs to wrap, which is 3 times as many as Roberto, who has 25.

- a. $25 + 75 = 100$
- b. $75 - 25 = 3$
- c. $75 = 3 \times 25$
- d. $25 + 3 = 75$

2. Find the equation that represents the following statement:
Gina the elf has 132 princess dolls to wrap, which is 11 times as many as...

- a. $132 - 12 = 11$
- b. $12 + 11 = 132$
- c. $132 = 11 + 12$
- d. $132 = 11 \times 12$



1. Find the equation that represents the following statement:

Miguel the elf has 75 toy dinosaurs to wrap, which is 3 times as many as Roberto, who has 25.

$$25 + 75 = 100$$

$$75 - 25 = 3$$

$$75 = 3 \times 25$$

$$25 + 3 = 75$$

1.

Multiplicative Comparisons

Find the equation that represents the following statement:

Miguel the elf has 75 toy dinosaurs to wrap, which is 3 times as many as Roberto, who has 25.






- a. $25 + 75 = 100$
- b. $75 - 25 = 3$
- c. $75 = 3 \times 25$
- d. $25 + 3 = 75$

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)

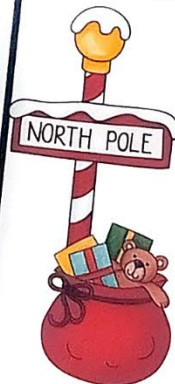
Santa Claus

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!



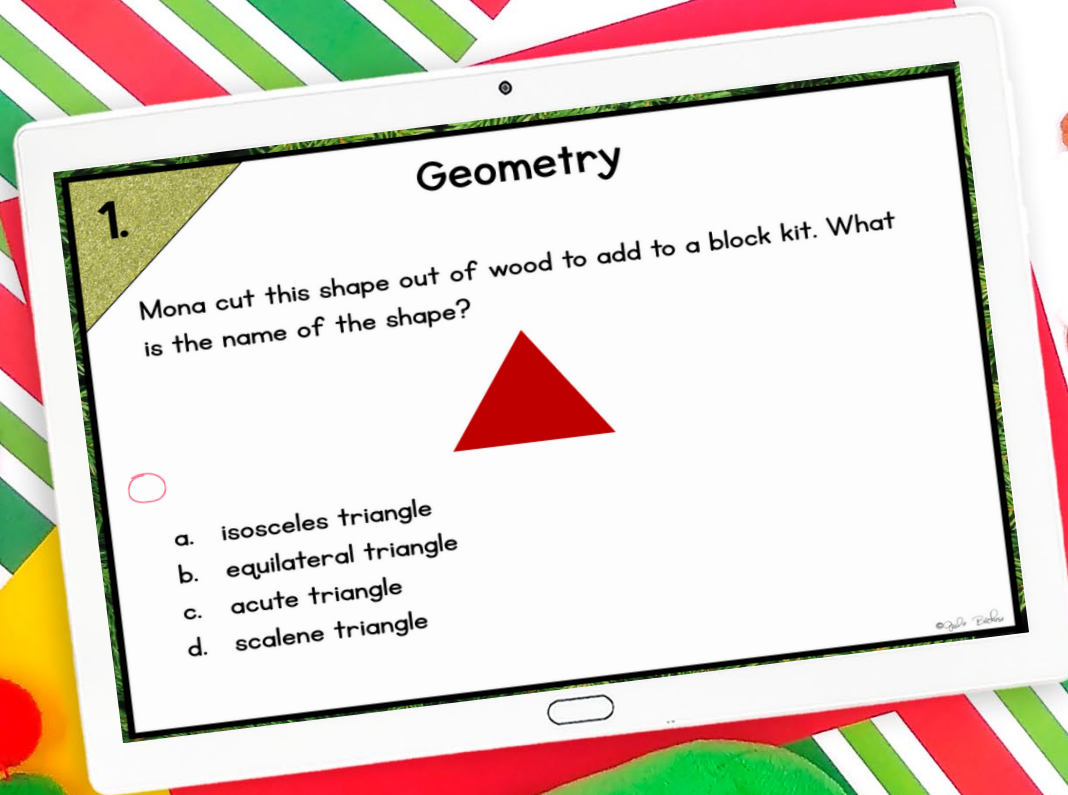
Webscape TM

- 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?

