

4th Grade

MATH REVIEW



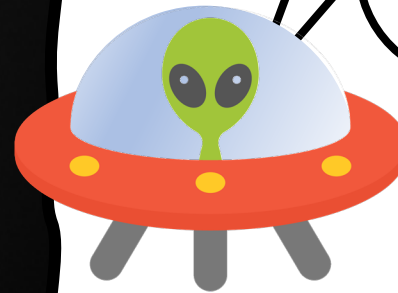
EARTH DAY
ALIEN RESCUE
ESCAPE ROOM



PRINTABLE • GOOGLE • WEBSCAPE™

Immerse in the Story

You know, we aliens came to Earth to try to help your planet, but now four of my friends are stuck in some pretty polluted places! Please, help me pick them all up before this Earth Day is over.



Learn more!



Greetings, Earthlings!

My comrades and I have traveled from far, far away in our spaceship to help your planet. We hear you haven't been taking care of it properly! But now, four of my crew have gotten stuck in your planet's pollution.

Can you help my fellow aliens escape the pollution?

Crew members to help:

1. Commander Glibnar
2. Petty Officer Globnix
3. Lieutenant Ipsix
4. Exploration Officer Fiblar

After each challenge, put the alien back in the spaceship!

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



4 Math Challenges

- Standards Based
- Scaffolded

Challenges

1. Addition and subtraction (2.OA.A.1, 2.NBT.B.7)
2. Place Value (2.NBT.A.1, 2.NBT.B.4)
3. Arrays (2.OA.C.4)
4. Geometry & Fractions (2.G.A.1, 2.G.A.2, 2.G.A.3)

Learn more!



Challenge #3

1. Solve each word problem.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Lieutenant Ipsix in the spaceship.
5. Scan the QR code in the corner of
6. Move on to challenge #4.

1. Lieutenant Ipsix travels down from a nuclear plant. He brings his Geiger counter which measures the radiation levels near the nuclear plant. The Geiger counter weighs $3\frac{1}{2}$ pounds. How many ounces does the Geiger counter weigh?



2. Lieutenant Ipsix takes his Geiger counter to a nuclear plant. Under the nuclear plant, there is a system of pipes that measures 2,485 meters long.

Challenge #2

1. Solve each place value problem.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Petty Officer Globnix in the spaceship.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #3.



1. An oil tanker ran ashore on a coral reef causing many of its oil barrels to fall into the ocean! The number comparison below compares the number of barrels that fell into the ocean.

2. A bunch of volunteers have come to the beach to help clean up the oil spill. There are 256 volunteers in total. Which of the options below correctly shows the number of volunteers in expanded form?

- a. $2 + 5 + 6$
- b. $20 + 50 + 6$
- c. $200 + 56$
- d. $200 + 50 + 6$

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!

Where was Commander Glibnar hiding?

We were

Clue #1



Clue #2



Clue #3

Submit



Clue #4



Clue #5



Clue #6

3 Versions

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

Learn more!



Challenge #3

1. Solve each word problem.
2. Record answers on your brochure.
3. Check your answers in the Alien R
4. Put Lieutenant Ipsix in the spaces
5. Scan the QR code in the corner o
6. Move on to challenge #4.



2. Lieutenant Ipsix takes his Geiger counter plant. Under the nuclear plant, there is a sy. that measures 2,485 meters long

Challenge #2



1. Solve each place value problem.
2. Record answers on your brochure.
3. Check your answers in the Alien Rescue Decoder.
4. Put Petty Officer Globnix in the spaceship.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #3.

2. A bunch of volunteers have come to the beach to help clean up the oil spill. There are 256 volunteers in total. Which of the options below correctly shows the number of volunteers in expanded form?

- a. $2 + 5 + 6$
- b. $20 + 50 + 6$
- c. $200 + 56$
- d. $200 + 50 + 6$

1. An oil tanker ran ashore on a coral reef causing many of its oil barrels to fall into the ocean! The number comparison below compares the number of barrels that fell into the ocean.

Petty Officer Globnix descends from the spaceship to clean-up. When Officer Globnix lands, 13,039 barrels of oil have already leaked into the water. Which number comparison correctly describes the relationship between the 1 and 9 digits below?

13,039

- a. The digit 3 is 100 times greater than the right 3
- b. The digit 3 is 10 times less than the right 3
- c. The digit 3 is 1,000 times greater than the right 3
- d. The digit 3 is 10 times greater than the right 3

4. Booms are long, floating rafts used to contain the oil spill. When rounded to the nearest hundred, which two booms are the same?

| Boom Number | Length |
|-------------|-----------|
| 1 | 1,914 ft. |



SOLVE THE PROBLEM




The petroleum refining plant in Smog City is made up of 7 different buildings. There are 28 smokestacks in total in the plant. If each building has an equal number of smokestacks, how many smokestacks are on each building?

3 smokestacks

4 smokestacks

5 smokestacks

8 smokestacks

| | 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

- Low prep
- Paper Saving
- Optional QR codes so students experience videos

Challenge #1

1. Solve each multiplication or division problem.
 2. Record answers on your brochure.
 3. Check your answers in the Alien Rescue Decoder.
 4. Put Commander Glibnar in the spaceship.
 5. Scan the QR code in the corner of the next page.
 6. Move on to challenge #2.
1. Smog City has lots of factories and, as a result, it is very smoggy. There are 8 automobile factories in Smog City. There are 6 times as many electronics factories as automobile factories. How many factories are there in total?
- a. 48 factories
b. 56 factories
c. 40 factories
d. 62 factories
2. The petroleum refining plant in Smog City is made up of 7 different buildings. There are 28 smokestacks in total in the plant. If each building has an equal number of smokestacks, how many smokestacks are on each building?
- a. 3 smokestacks c. 5 smokestacks
b. 4 smokestacks d. 8 smokestacks
3. None of the residents of Smog City walk, bike, or take public transportation. They all drive their own cars everywhere! Commander Glibnar sees 39 cars drive by in one minute. There were three blue cars and an equal number of black, red, white, and gray cars. How many black cars passed Commander Glibnar?
- a. 7 black cars c. 5 black cars
b. 4 black cars d. 9 black cars

4. Commander Glibnar tries using his Air Purifying Laser to clean the air in Smog City. He can run the laser for 65 minutes before it needs to be recharged. If Commander Glibnar used the laser five times, how many minutes was it running?

- a. 225 minutes
b. 350 minutes
c. 185 minutes
d. 325 minutes

5. Commander Glibnar is counting the vehicles stuck in a traffic jam. There are 452 vehicles in the traffic jam. There is an equal number of cars, vans, trucks, and motorcycles. How many of each type of vehicle is in the traffic jam?

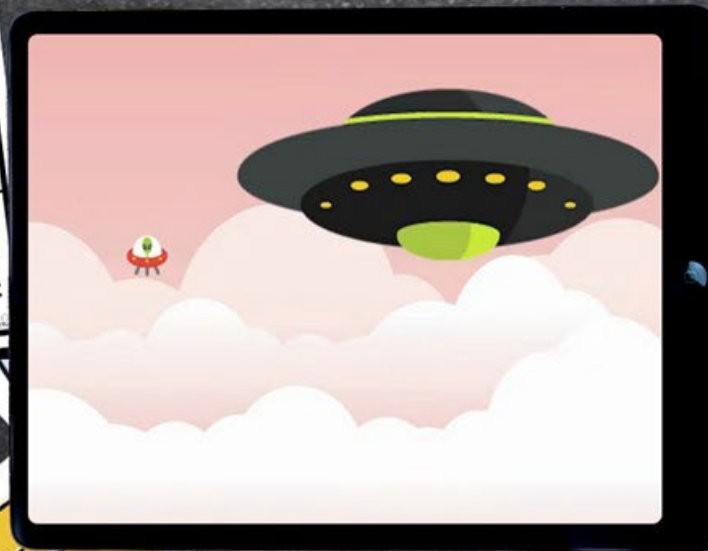
- a. 113 of each
b. 108 of each
c. 97 of each
d. 126 of each

6. The landfill in Smog City is overflowing, so every day they have to burn an increasing number of truckloads of trash. The pattern of how many truckloads of trash they burn per day is shown below. How many truckloads of trash will they burn on the sixth day?

3, 6, 12, 24...

- a. 48 truckloads
b. 36 truckloads
c. 96 truckloads
d. 42 truckloads

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



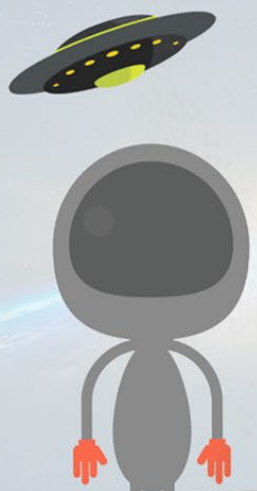
Learn more!



Print

- Cut and paste stamps for each challenge
- Easy to follow
- Optimal for group or partner work

Learn more!



Greetings, Earthlings!

My comrades and I have traveled from far, far away in our spaceship to help your planet. We hear you haven't been taking care of it properly! But now, four of my crew have gotten stuck in your planet's pollution.

Can you help my fellow aliens escape the pollution?

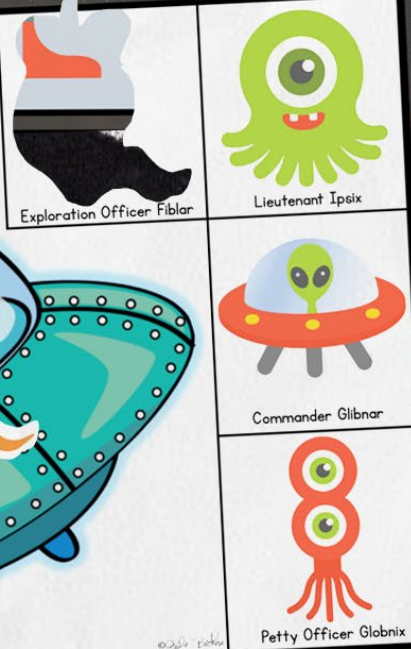
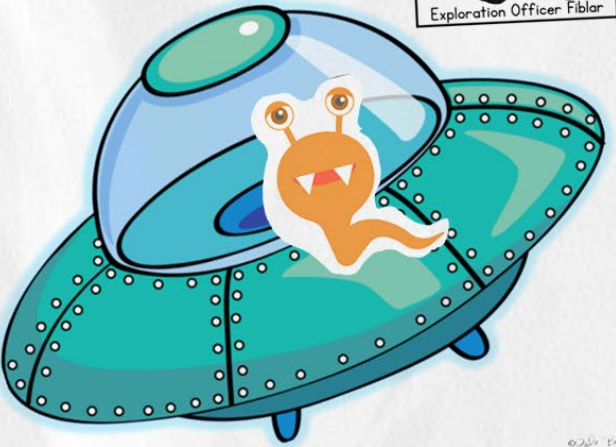
Crew members to help:

1. Commander Glibnar
2. Petty Officer Globnix
3. Lieutenant Ipsix
4. Exploration Officer Fiblar

After each challenge, put the alien back in the spaceship!



Cut out each alien. After each challenge, paste the alien into the spaceship. Once all the aliens are safely back on the ship, they can return home!



Exploration Officer Fiblar

Lieutenant Ipsix

Commander Glibnar

Petty Officer Globnix

The petroleum refining plant in Smog City is made up of different buildings. There are 28 smokestacks in total the plant. If each building has an equal number of smokestacks, how many smokestacks are on each building?

a. 3 smokestacks c. 5 smokestacks
b. 4 smokestacks d. 8 smokestacks

3. None of the residents of Smog City walk, bike, or take public transportation. They all drive their own cars everywhere! Commander Glibnar sees 39 cars drive by in one minute. There were three blue cars and an equal number of black, red, white, and gray cars. How many black cars passed Commander Glibnar?

a. 7 black cars c. 5 black cars
b. 4 black cars d. 9 black cars

Print

- Recording brochure for answers
- Self-checking decoder
- Certificate of completion

Learn more!



Alien Rescue 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 = We were b = He was c = He had d = There was | a = going b = hiding c = info d = called | a = near b = because c = among d = underneath | a = when the b = smokestack c = pollution d = a pile | a = of old b = to his c = when the d = since | a = factory b = spaceship c = trees d = window |

| Challenge 2 | question 1 | question 2 | question 3 | question 4 | question 5 | question 6 |
|-------------|---|--------------------------------------|--------------------------------|---|---|---|
| | a = He was b = With a c = First you d = Not... | a = water b = clearing c = him | a = dish soap b = volunteer | a = because b = and c = washing d = but then | a = a little b = sometimes c = lots of d = he goes | a = of farker b = on the beach c = back home d = scrubbing |

| | question 4 | question 5 | question 6 |
|--|---|---|---|
| | a = underground b = radioactive c = chasing d = into | a = the b = out c = help him d = running | a = quickly b = nuclear plant c = afterwards d = ... |

EARTH DAY ALIEN RESCUE

_____ (name)
has successfully saved all the
aliens from the Earth's pollution!

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

_____ (Date)
Thank you, Earthling!

CHALLENGE 1

| Answer | Code |
|--------|------|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |
| 6. | |

Where was Commander Glibnar hiding?

CHALLENGE 2

| Answer | Code |
|--------|------|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |
| 6. | |

How can you clean all the oil off Petty Officer Globnix?

CHALLENGE 3

| Answer | Code |
|--------|------|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |
| 6. | |

How can you help Lieutenant Ipsix escape from the nuclear plant?





OOPS!
You forgot to recycle!



OOPS!
Your eyes are irritated from the smog!



YOU MUST BE BLINDFOLDED FOR 5
MINUTES. NO USING YOUR EYES
DURING THIS TIME!

PS!
need to clean up!



NO HELPING YOUR TEAM
FOR 3 MINUTES!

Print

- OOPS! Cards for differentiation

Learn more!



Webscape™

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

Learn more!

A screenshot of a tablet displaying a math problem. The background of the tablet screen is a satellite image of Earth. At the top left, there is a yellow comet-like graphic. A yellow triangle with the number '1.' inside points to the text. A speaker icon is next to the title 'SOLVE THE PROBLEM'. Below the text are four teal buttons with white text.

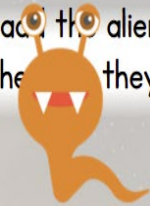
1.  **SOLVE THE PROBLEM**

Smog City has lots of factories and, as a result, it is very smoggy. There are 8 automobile factories in Smog City. There are 6 times as many electronics factories as automobile factories. How many factories are there in total?

48 factories 56 factories 40 factories 62 factories

Webscape™

Collect each alien. After each challenge, add the alien into the spaceship.
Once all the aliens are safely back on the spaceship they can return home!



Click the spaceship
to collect your alien!

Great work! Let's keep going!

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

Learn more!



Google Slides

1

SOLVE THE PROBLEM.

An oil tanker ran ashore on a coral reef causing many of its oil barrels to fall into the ocean! The number comparison below compares the number of barrels that fell into the water to the number of barrels that stayed on the ship. Which symbol correctly completes the number comparison?

4,632 ? 3,956
number of barrels number of barrels
in the water on the ship

a. <

c. =

b. >

d. +

Drag to circle
your answer



©2018 Bobo

- One problem per slide
- Students drag to highlight answer

Learn more!



Google Slides

Earth Day Math Alien Rescue Escape Room Decoding Tool

| Question # | 1 | 2 | 3 | 4 | 5 | 6 |
|--------------|---|---|---|---|---|---|
| Your Answers | | | | | | |

Where was Commander Glibnar hiding?

a
b
c
d

KEEP LOOKING! DO NOT MOVE ON TO THE NEXT SLIDE.

Challenge 1 - Save Commander Glibnar! | Challenge 2 - Help Petty Officer Globnix! | Challenge 3 - Evacuate Lieutenant Ipsix! | Challenge 4 - Rescue Exploration Officer Fiblar!

- 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?

Earth Day Bundle

4th Grade

4th Grade Math Earth Day Alien Rescue Escape Room

Virtual Field Trip: Recycling Facility for Earth Day

EARTH DAY PBL Organize a Debate!

3rd - 5th Grades

Save the Planet Reasons Support Points Escape Room

4th - 5th Grade

Magi CORE

Holiday Math Escape Room Bundle

4th Grade

4th Grade Math Lucky's Map Escape Room

4th Grade Math Catch an Elf Escape Room

HALLOWEEN MATH Escape Room

4th Grade Math The Case of the Missing Valentines Escape Room

4th Grade Math Earth Day Alien Rescue Escape Room

Magi CORE

MATH REVIEW

Escape the School

4th Grade

6. You have 2 fractions, $\frac{4}{6}$ and to rewrite them so that they denominator.

What is the lowest number denominator?

12

24

SCHOOL

Print and Digital

Magi CORE