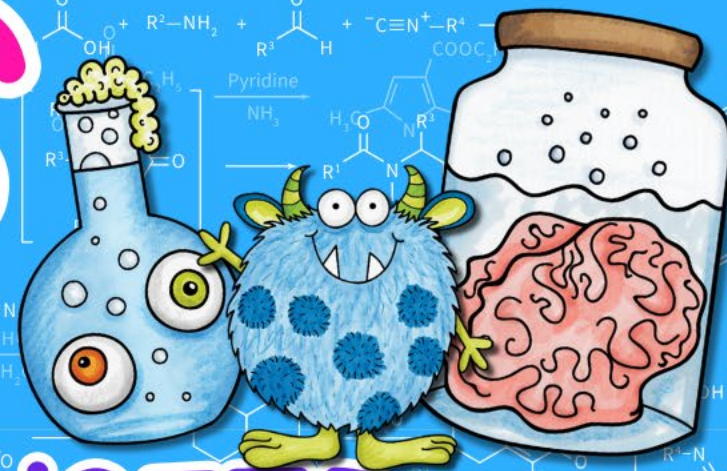


FINDING FACTORS

4th Grade



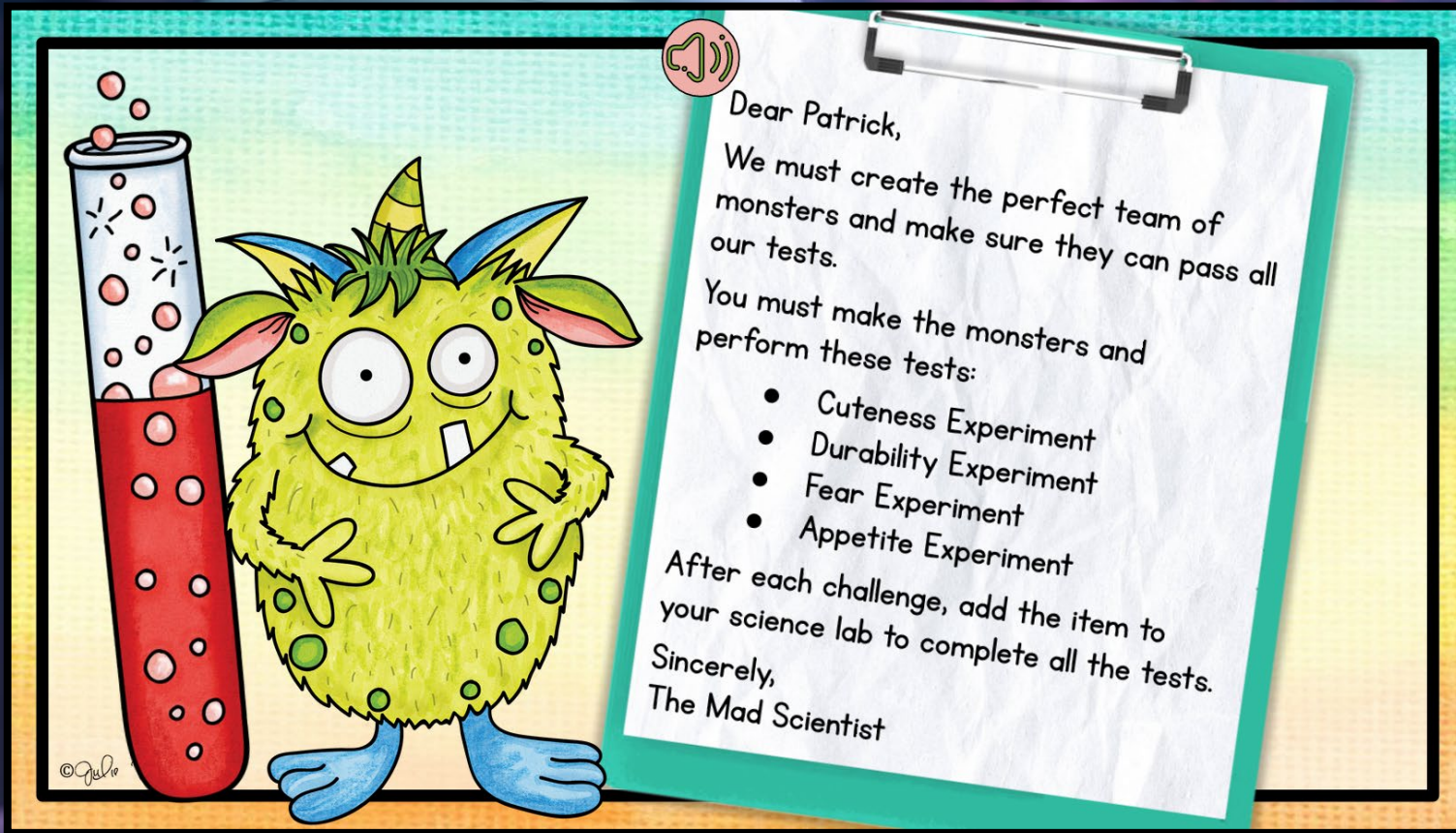
MONSTER SCIENCE LAB ESCAPE ROOM

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Mag
CORE

Escape the Science Lab!

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



Learn more!



Challenge #3

- Solve each "hundreds chart factor" problem. Record answers on your brochure.
- Check your answers in the Monster Decoder.
- Add the clown to your science lab.
- Scan the QR code in the corner of the third page.
- Move on to the challenge #4.



- Which set of numbers are shaded on the hundreds chart?
- Which set of numbers are shaded on the hundreds chart?
- Alma tried to shade only composite numbers on the hundreds chart. What mistake did she make?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- The factors of 28
- The factors of 73
- The factors of 84
- The factors of 92

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- The factors of 28
- The factors of 73
- The factors of 84
- The factors of 92

- Which of the following describes the numbers shaded on the hundreds chart?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- They are all prime.
- They are all factors of 81.
- They are all composite.
- They are all factors of 73.

- Which of the following describes the numbers shaded on the hundreds chart?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- They are all factors of 81.
- They are all composite.
- They are all prime.
- They are all factors of 59.

- Which number chart?

-
-
-
-

Challenge #4

- Solve each factor word problem.
- Record answers on your brochure.
- Check your answers in the Monster Decoder.
- Add the dog bowl to your science lab.
- Scan the QR code in the corner of the third page.
- Complete the experiments to make the monsters!



- Asia has 32 marbles. She wants to put her marbles in bags, so each bag has the same number of marbles, and no marbles are left over. What number is missing from the table?
- A rectangle has an area of 18 square centimeters. Which of the following could be the dimensions of the rectangle?
- Ahmad has 36 toy cars and wants to put every car in a toy bin. He wants each bin to have the same number of cars. What number is missing from the table?

Number of Bags	Marbles
1	32
2	16
4	?

- 4
- 6
- 8
- 9

- 4 cm and 5 cm
- 2 cm and 7 cm
- 3 cm and 6 cm
- 1 cm and 8 cm

Bins	Number of Cars
2	18
4	9
?	6

- 4
- 9
- 8
- 6

4 Mathematics Challenges

- Challenges focused on Finding Factors
- Each challenge takes about 20-30 minutes

Learn more!



4 Mathematics Challenges

Challenge #4

1. Solve each factor word problem.
2. Record answers on your brochure.
3. Check your answers in the Monster Decoder.
4. Add the dog bowl to your science lab.
5. Scan the QR code in the corner of the third page.
6. Complete the experiments to make the monster!

1. Asia has 32 marbles. She wants to put her marbles in bags, so each bag has the same number of marbles, and no marbles are left over. What number is missing from the table?

Number of Bags	Marbles
1	32
2	16
4	?

- a. 4
b. 6
c. 8
d. 9

2. A rectangle has an area of 18 square centimeters. Which of the following could be the dimensions of the rectangle?

- a. 4 cm and 5 cm
b. 2 cm and 7 cm
c. 3 cm and 6 cm
d. 1 cm and 8 cm

3. Ahmad has put every car in each bin to cars. What the table?

Bin	Cars
1	2
2	4
3	?

- a. 4
b. 9
c. 8
d. 6

10. There are 56 horses at camp. The horses stay in large fenced-in fields. Every horse is in a field, and each field has the same number of horses. What number is missing from the table?

Fields	Number of Horses
1	56
2	28
?	14
7	8

- a. 5
b. 6
c. 3
d. 4

11. A rectangle has an area of 49 square centimeters. Which of the following could be the rectangle's length and width?

- a. 40 cm and 9 cm
b. 7 cm and 7 cm
c. 9 cm and 6 cm
d. 8 cm and 7 cm

12. A rectangle has an area of 28 square centimeters. Which of the following could be the rectangle's length and width?

- a. 7 cm and 4 cm
b. 8 cm and 3 cm
c. 8 cm and 6 cm
d. 5 cm and 9 cm

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



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

Learn more!



Challenge #1

1. Solve each "find the factors" problem.
2. Record answers on your brochure.
3. Check your answers in the Monster Decoder.
4. Add the baby bottle to your science lab.
5. Scan the QR code in the corner of the next page.
6. Move on to the challenge #2.



Challenge 1

Find the Factors

1. Which choice lists all the factors of 10?



- a. 1, 9, 7, 3, 8, 2
b. 1, 10, 5, 2
c. 5, 2, 7, 3, 9, 1
d. 1, 10, 2, 8

2. Which choice lists all the factors of 12?



- a. 1, 11, 10, 2, 9, 3
b. 6, 6, 8, 4
c. 1, 12, 6, 2, 4, 3
d. 3, 9, 2, 10

1. Which choice lists all the factors of 10?

- a. 1, 9, 7, 3, 8, 2
b. 1, 10, 5, 2
c. 5, 2, 7, 3, 9, 1
d. 1, 10, 2, 8

3. Which choice lists all the factors of 81?

- a. 1, 81, 40, 4
b. 80, 1, 30,
c. 1, 81, 9, 3
d. 10, 71, 1,

2. Which choice lists all the factors of 12?

- a. 1, 11, 10, 2, 9,
b. 6, 6, 8, 4
c. 1, 12, 6, 2, 4,
d. 3, 9, 2, 10



Which choice lists all the factors of 10?

1, 9, 7, 3, 8, 2

1, 10, 5, 2

5, 2, 7, 3, 9, 1

1, 10, 2, 8

3 Versions

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

Learn more!



	PDF		

3 Versions

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

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Print

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

Learn more!



Monster Decoder

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

Challenge 1

question 1
a = We
b = I
c = The scientist
d = First

question 2
a = gave
b = wanted
c = turned
d = I

question 3
a = some
b = the baby
c = the
d = tried to

question 4
a = little
b = monsters
c = scary
d = turn them

question 5
a = monsters
b = to be
c = monsters to
d = into

question 6
a = lots
b = super
c = cute,
d = pets

question 7
a = of
b = cuddly
c = fluffy
d = but

question 8
a = toys
b = so
c = babies
d = then

question 9
a = and
b = I
c = then
d =

question 10
a = they
b = turned
c =

question 11
a = cry,
b = into babies,
c = with them,
d = instead.

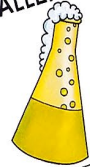
question 12
a = cry,
b = into babies,
c = with them,
d = instead.

SCIENCE LAB RECORDING BROCHURE

Record your
challenge answers
along your
journey.



CHALLENGE 3



Answer	Answer
1. c	7. b
2. a	8. d
3. a	9. b
4.	10.
5.	11.
6.	12.

How did you perform the
Fear Experiment?

Monster Science Escape Room

James Hall

(name)

has successfully completed the challenges and escaped the lab.

10/03

(Date)



The Mad Scientist

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



Print

- Certificate of completion
- OOPS! Cards for differentiation

Ooops!

You spilled dog food on the floor and slipped.



NO HELPING YOUR TEAM FOR
3 MINUTES!

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

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- 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

- Two problems per slide
- Students drag to circle their answers

Learn more!



Challenge 4 Solve the Factor Word Problems

1. Asia has 32 marbles. She wants to put her marbles in bags, so each bag has the same number of marbles, and no marbles are left over. What number is missing from the table?

Number of Bags	Marbles
1	32
2	16
4	?

- ☐ a. 4
b. 6
c. 8
d. 9

2. A rectangle has an area of 18 square centimeters. Which of the following could be the dimensions of the rectangle?

- ☐ a. 4 cm and 5 cm
b. 2 cm and 7 cm
c. 3 cm and 6 cm
d. 1 cm and 8 cm

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!



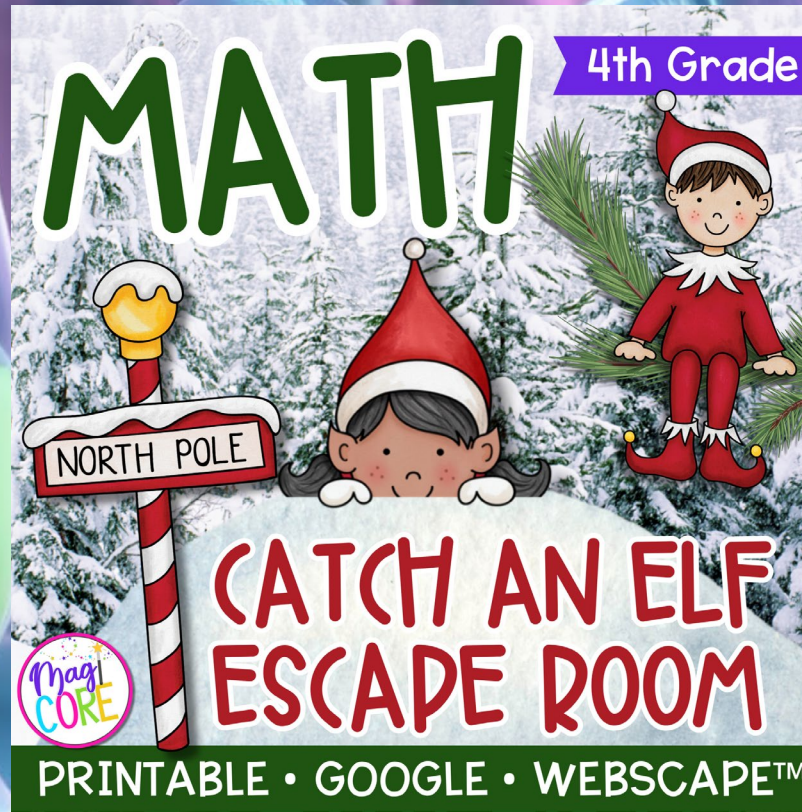
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