

keep scrolling to get
a sneak peek!

Help your middle school math students practice calculating **percent proportions**. Students will be eager to get the self-checking benefits from this digital pixel art activity!

PERCENT PROPORTIONS

#	Question	Answer	Directions: Answer each question correctly and pixels will appear to reveal a picture! If necessary, round your answer to the nearest tenth.
1	What is 15% of 72?		
2	34 is what percentage of 84?		
3	109 is 63% of what?		
4	What is 60% of 32?		
5	14 is 56% of what?		
6	16 is what percentage of 40?		
7	What is 74% of 150?		
8	9 is what percentage of 45?		
9	What is 35% of 94?		
10	56 is 87.5% of what?		

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Self-Checking

Why do you need this?



It's self-checking! Your students will instantly know if they are correct or not.



Help your students practice this essential math skill.



Your students will be so engaged trying to figure out what the picture is!

Percent Proportions Pixel Art



Percent Proportions Pixel Art includes:



- ✓ 10 self-checking problems
- ✓ an answer key
- ✓ a self-checking version
- ✓ an assessment version

Percent Proportions Pixel Art

standards covered:

CCSS: 7.RP.A.3

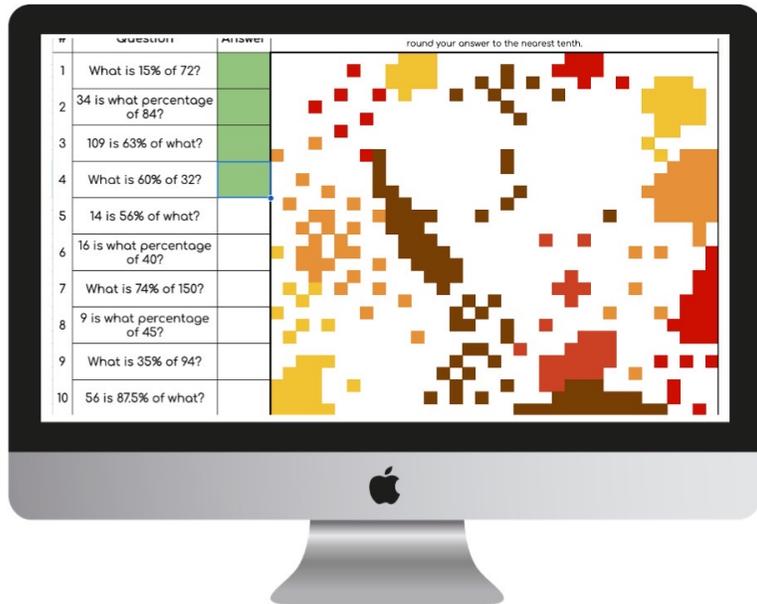
TEKs: A1.2.B

VA SOLs: CE.8.4

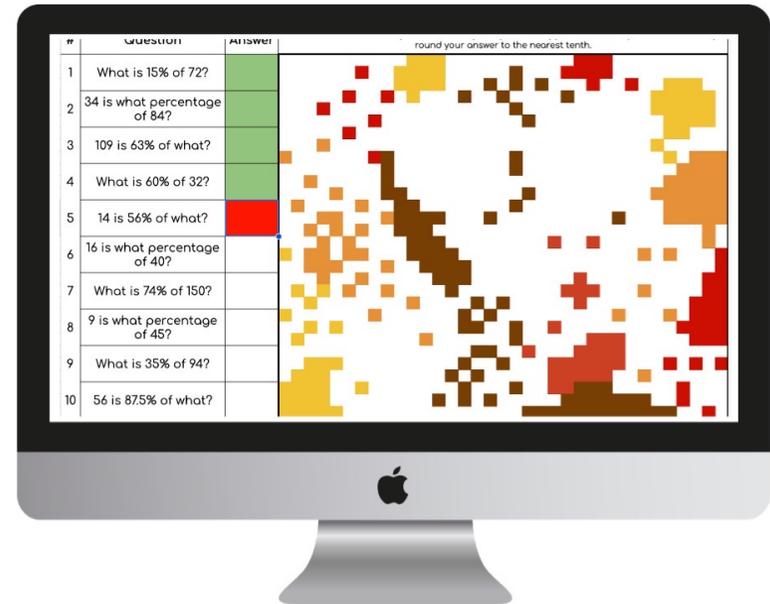


Percent Proportions Pixel Art

If they answer it correctly, some of the pixels will appear.



If they answer it incorrectly, the answer box will turn red & no pixels appear.



Your students will *love* trying to figure out what the picture is **WHILE** doing math!

how to use this resource



This is a great activity to use when reviewing how to solve percent proportion problems.

It can be used right after teaching the concept or as homework.

This is also a **substitute-friendly** assignment!

You may also enjoy...

PERCENT PROPORTIONS

Directions: Calculate each problem and type your answer in the answer column. If your answer is a percentage, include the percent symbol. If you get the answer correct, the box next to it will turn green. If you answer the question incorrectly, it will turn red.

Q#	Question	Answer	Q#	Question	Answer	Q#	Question	Answer
1	37 is 43% of what?		4	13 is what percentage of 52?		7	24 is what percentage of 80?	
2	33 is 66% of what?		5	What is 75% of 15?		8	2.7 is 6% of what?	
3	What is 27% of 61?		6	60 is what percentage of 75?		9	What is 35% of 40?	

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Self-Checking

TAX, TIP, DISCOUNT, MARKUP, COMMISSION

12 Task Cards

TAX, TIP, DISCOUNT, MARKUP, COMMISSION
ANSWER KEY

Directions: Solve problem and show your work in the box.

#1 20% → 0.20
(0.20)(52.20) = 10.44
10.44 + 52.20 = 62.64

#2 6% → 0.06
(0.06)(144) = 8.64
144 + 8.64 = 152.64

#3 Carter left a 15% tip for a \$12.35 meal. How much did Carter pay for the tip altogether?

#4 12% → 0.12
(0.12)(1000) = 120

#5 5% → 0.05
(0.05)(42) = 2.10
42 + 2.10 = 44.10

#6 70% → 0.70
(0.70)(4) = 2.80
4 + 2.80 = 6.80

#7 21%
(0.21)(150) = 27.30
150 + 27.30 = 177.30

#8 Sandra was looking into buying a new TV. The original price was \$1250. The store was having a sale for 60% off. How much did she pay for the TV?
60% → 0.60
(0.60)(1250) = 750
1250 - 750 = 500

#9 5% → 0.05
(0.05)(42000) = 2100
42000 + 2100 = 44100

#10 It costs a toy company \$4 to make a doll. If they want to make a 40% profit, how much should the toy store sell the doll for?
40% → 0.40
(0.40)(4) = 1.60
4 + 1.60 = 5.60

Answers printed on the back!

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Answers printed on the back!

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CALCULATING PERCENT CHANGE

CALCULATE THE PERCENT CHANGE OF EACH PROBLEM.

1. The cost to make an iPhone is \$370.25. Apple sells the iPhone for \$999.00. What is the percent change?

Original: Final: Answer:
Increase Decrease

2. Your grade on your math test was 62%. You retook it and got an 86%. What is the percent change of your grade?

Original: Final: Answer:
Increase Decrease

3. In a few months, the price of gas per gallon went from \$2.19 to \$1.44. What is the percent change of the price of gas?

Original: Final: Answer:
Increase Decrease

4. In 1935 there were 15,246 banks in the United States. In 2003, there were 9,182 banks. What is the percent change?

Original: Final: Answer:
Increase Decrease

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Free Algebra Activities!

When you join my email list, I'll send you a free Algebra print & digital self-checking activities. There is an Algebra 1 and Algebra 2 version!

You'll also be getting exclusive freebies and content to help your Algebra students be successful this school year!

check it out!

The image shows a collage of algebra worksheets and a digital tablet. The worksheets include:

- Answer Key** for **ADDING & SUBTRACTING RATIONAL EXPRESSIONS** with handwritten solutions like $\frac{2x-8}{x^2-10}$.
- MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS** with handwritten solutions like $\frac{x^2-x+3x-6}{(x-1)(x-2)}$.
- SOLVING SYSTEMS OF EQUATIONS** with handwritten solutions like $y=2+5$, $y=7$, and $(2, 7)$.

The digital tablet displays a self-checking activity titled **Rational Expression Operations - Addition & Subtraction**. The directions are: "Answer each question and type the question number with the matching answer in the answer column to the right." The activity consists of a table with 8 questions and 8 answers, with a path of colored lines connecting the questions to their corresponding answers.

#	Question	Answer	Type the matching question numbers here
1	$\frac{5}{x} + \frac{3}{x+1}$	$\frac{2x+1}{x+2}$	
2	$\frac{2}{x+4} - \frac{x^2}{x^2-16}$	$-\frac{1}{x^2-1}$	
3	$\frac{x+2}{x^2+4x+4} + \frac{2x}{x+2}$	$\frac{2x^2+2x+5}{x^2+x-2}$	
4	$\frac{x}{x-2} + \frac{3}{x-1}$	$-\frac{x^2+2x-8}{x^2-16}$	
5	$\frac{x}{4x+8} - \frac{1}{x^2+2x}$	$\frac{8x+5}{x^2+1}$	
6	$\frac{x+2}{x-1} + \frac{x-1}{x+2}$	$\frac{x^2-3x+7}{x^2-4}$	
7	$\frac{2x+1}{x^2-4} + \frac{x-3}{x+2}$	$\frac{x^2+2x-6}{x^2-3x+2}$	
8	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

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hey there!

My name is Malia and I'm passionate about making learning and practicing math fun. I love creating engaging math resources for my students and I hope your students enjoy this activity too!

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