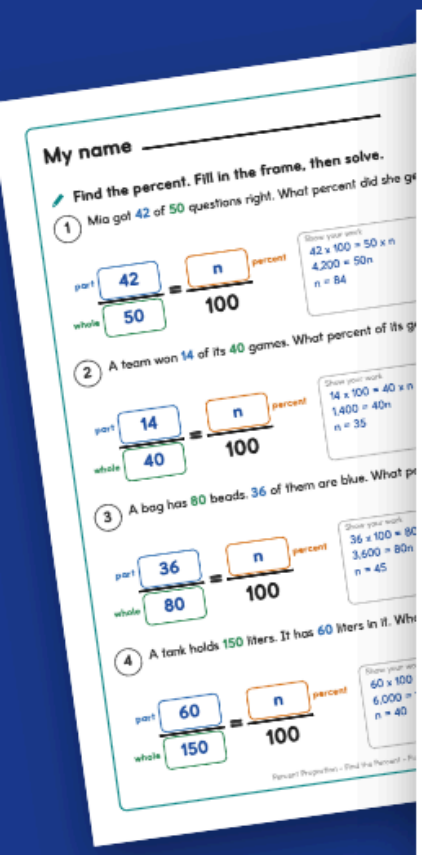
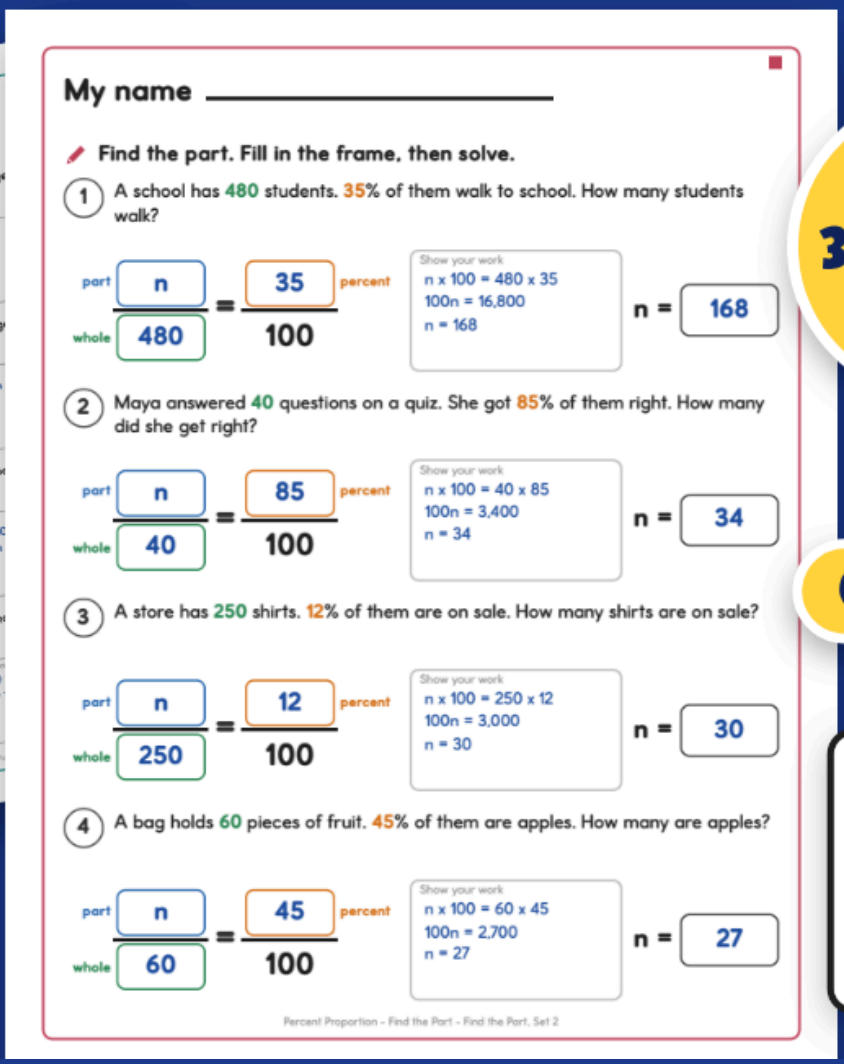
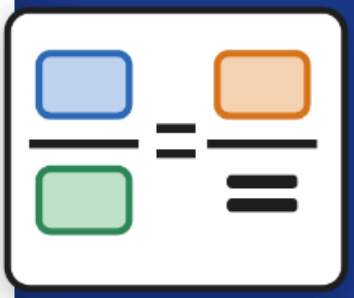
PERCENT
PROPORTION WORKSHEETS
Set-Up Frame on Every Problem





33 PAGES

GRADES 7-8



Bright Path Sped

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One classroom license

- This file is for one classroom: one teacher, one group of students.
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This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a box, type, and Save As.
- The name line, every box in the set-up frames and every answer box are type-in fields. The work space is for pencil on a printed page.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the frames and answer boxes stay big enough to write in. Every page prints in color or in black and white. In black and white the three frame boxes keep their labels (part, whole, percent), so a student can still tell them apart.

Student work

A filled-in tracker carries a student's name. Keep it in the data folder, and use a first name only on any page that leaves your hands. All names and numbers in the word problems are invented.

Need help?

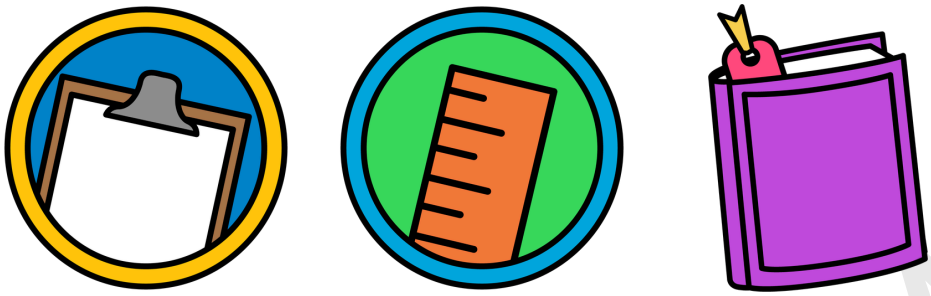
If a box will not behave or a page will not print the way you expect, use Ask a Question on the product page before leaving a review. Every question is read, and a fix to the file ships as a free update: re-download it any time from My Purchases.

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PREVIEW

Binder Cover and Spine

Slide this into the front of a binder or a folder. The spine strip is below it; the 5 divider tabs come before each section (pages 5, 9, 13, 17, 21).



PERCENT PROPORTION

part, whole and percent practice

Name _____

Class or group _____

School year _____

PREVIEW

Percent Proportion - Bright Path Sped

Spine strip: fold it around the spine of a one-inch binder, or tape it flat to a folder edge.

My name _____

Read the steps. Then fill in each frame.

Part, Whole and Percent

$$\frac{\text{part } 12}{\text{whole } 24} = \frac{50}{100} \text{ percent}$$

12 is **50**% of **24**.

part
The piece we are looking at. It goes with the word is.

whole
All of it. It usually comes after the word of.

percent
Out of 100. It goes on top of the 100.

Four steps to solve

1. Find the part, the whole and the percent.
2. Write them in the frame. Put n where a number is missing.
3. Cross multiply: part times 100, and whole times percent.
4. Divide to find n. Then check it.

Your turn: part, whole or percent?

1 **12** is **50**% of **24**.

part | whole | percent

2 **9** is **30**% of **30**.

part | whole | percent

3 **18** is **40**% of **45**.

part | whole | percent

PREVIEW

My name _____

Set up each frame. Do not solve yet.

1. What is 50% of 20?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

The missing number is the:

part whole percent

2. What is 25% of 40?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

The missing number is the:

part whole percent

3. 10 is what percent of 20?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

The missing number is the:

part whole percent

4. 5 is what percent of 50?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

The missing number is the:

part whole percent

5. 10 is 50% of what number?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

The missing number is the:

part whole percent

6. 3 is 10% of what number?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

The missing number is the:

part whole percent

PREVIEW

Divider Tab 2 of 5

Slide this sheet in front of the pages in this section: 10 to 12.



FIND THE PART

Part is missing. Fill in the frame and solve for n.

Pages 10-12

PREVIEW

My name _____

Find the part. Fill in the frame, then solve.

1. A school has 480 students. 35% of them walk to school. How many students walk?

part / whole = percent / 100

Show your work

n =

2. Maya answered 40 questions on a quiz. She got 85% of them right. How many did she get right?

part / whole = percent / 100

Show your work

n =

3. A store has 250 shirts. 12% of them are on sale. How many shirts are on sale?

part / whole = percent / 100

Show your work

n =

4. A bag holds 60 pieces of fruit. 45% of them are apples. How many are apples?

part / whole = percent / 100

Show your work

n =

PREVIEW

Divider Tab 3 of 5

Slide this sheet in front of the pages in this section: 14 to 16.



FIND THE WHOLE

Whole is missing. Fill in the frame and solve for n.

Pages 14-16

PREVIEW

My name _____

Find the whole. Fill in the frame, then solve.

1. 28 students joined chorus. That is 35% of the grade. How many students are in the grade?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

n =

2. Leo made 18 free throws. That is 60% of his shots. How many shots did he take?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

n =

3. A class collected 45 cans. That is 15% of the school goal. How many cans is the goal?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

n =

4. Ben read 84 pages. That is 70% of his book. How many pages are in the book?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

n =

PREVIEW

Divider Tab 4 of 5

Slide this sheet in front of the pages in this section: 18 to 20.



FIND THE PERCENT

Percent is missing. Fill in the frame and solve for n.

Pages 18-20

PREVIEW

My name _____

Find the percent. Fill in the frame, then solve.

1. Mia got **42** of **50** questions right. What percent did she get right?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

n =

2. A team won **14** of its **40** games. What percent of its games did it win?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

n =

3. A bag has **80** beads. **36** of them are blue. What percent are blue?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

n =

4. A tank holds **150** liters. It has **60** liters in it. What percent of the tank is full?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

n =

PREVIEW

Divider Tab 5 of 5

Slide this sheet in front of the pages in this section: 22 to 25.



MIXED PRACTICE

Part, whole or percent? Find the missing one.
Sales, tax and tips too.

Pages 22-25

PREVIEW

My name _____

Fill in the frame. Find the missing number.

1 A shop sold **63** shirts. That is **45**% of its shirts. How many shirts did the shop have?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

$n =$

2 Omar finished **14** of **20** levels in a game. What percent did he finish?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

$n =$

3 A town has **8,500** people. **32**% of them are under 18. How many people are under 18?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

$n =$

4 Yara spent **18** dollars of her **45** dollars. What percent did she spend?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

$n =$

PREVIEW

My name _____

Fill in the frame. Find the missing number.

1 A jacket costs **72** dollars. The tax is **6.5**%. How many dollars is the tax?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

$n =$ ☐

2 A tip of **7.50** dollars is **15**% of the bill. How many dollars is the bill?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

$n =$ ☐

3 Last month a gym had **240** members. This month it has **300**. This month is what percent of last month?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

$n =$ ☐

4 Jade saved **18.75** dollars of her **75** dollar goal. What percent has she saved?

$$\frac{\text{part}}{\text{whole}} = \frac{\text{percent}}{100}$$

Show your work

$n =$ ☐

PREVIEW

Answer Key 2

Each line is the set-up frame with the missing number as n, then the answer. Money answers are in dollars.

Page 14: Find the Whole, Set 1

1) 10/n = 50/100, n = 20

2) 15/n = 25/100, n = 60

3) 9/n = 10/100, n = 90

4) 5/n = 20/100, n = 25

Page 15: Find the Whole, Set 2

1) 28/n = 35/100, n = 80

2) 18/n = 60/100, n = 30

3) 45/n = 15/100, n = 300

4) 84/n = 70/100, n = 120

Page 16: Find the Whole, Set 3

1) 6/n = 8/100, n = 75 dollars

2) 9/n = 15/100, n = 60 dollars

3) 14.50/n = 20/100, n = 72.50 dollars

4) 1,320/n = 110/100, n = 1,200

Page 18: Find the Percent, Set 1

1) 10/20 = n/100, n = 50 percent

2) 10/40 = n/100, n = 25 percent

3) 5/50 = n/100, n = 10 percent

4) 15/20 = n/100, n = 75 percent

Page 19: Find the Percent, Set 2

1) 42/50 = n/100, n = 84 percent

2) 14/40 = n/100, n = 35 percent

3) 36/80 = n/100, n = 45 percent

4) 60/150 = n/100, n = 40 percent

Page 20: Find the Percent, Set 3

1) 7/8 = n/100, n = 87.5 percent

2) 25/20 = n/100, n = 125 percent

3) 13/40 = n/100, n = 32.5 percent

4) 3/8 = n/100, n = 37.5 percent

PREVIEW

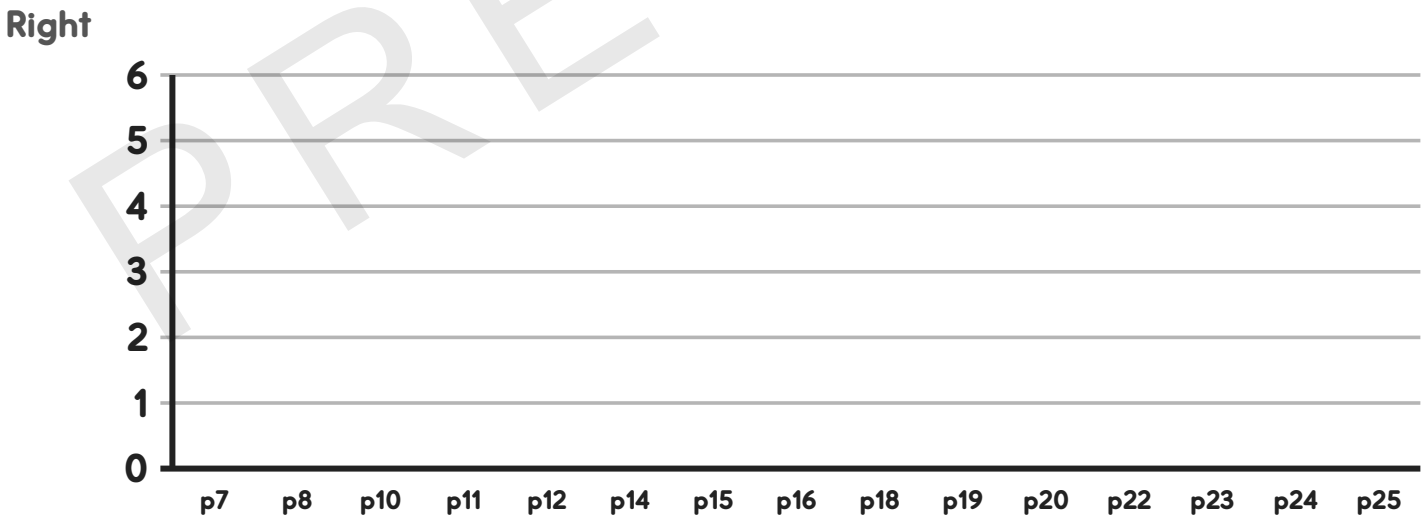
Tracker and Roll-Up

Write the date and how many were right. Then color the bar for that sheet. A blank row means not done yet, never wrong.

Student _____ Teacher _____ School year _____

Page	Sheet	Date	Right	Out of	Notes
7	Set Up the Frame, Set 1			6	
8	Set Up the Frame, Set 2			6	
10	Find the Part, Set 1			4	
11	Find the Part, Set 2			4	
12	Find the Part, Set 3			4	
14	Find the Whole, Set 1			4	
15	Find the Whole, Set 2			4	
16	Find the Whole, Set 3			4	
18	Find the Percent, Set 1			4	
19	Find the Percent, Set 2			4	
20	Find the Percent, Set 3			4	
22	Mixed Practice, Set 1			4	
23	Mixed Practice, Set 2			4	
24	Mixed, Sales and Tips			4	
25	Mixed Practice, Set 4			4	

Roll-up: color one bar for each sheet, up to the number right



Notes for the team

PREVIEW

Percents at Home

Send this page home with a student, or hand it to a family at a conference.

Student _____ Week of _____

How to help at home, in three steps

- Look around for a percent: a sale sign, a tip, a battery, a quiz score.
- Write the numbers you know in the frame. Put n where the number is missing.
- Cross multiply and divide to find n. Then check it together.

Try one together (invented numbers)

The sign says 20% off a jacket that costs 40 dollars. How many dollars off?

$$\frac{\text{part}\ \square}{\text{whole}\ \square} = \frac{\square\ \text{percent}}{100}$$

Show your work

$n = \square$

Try saying

- "Which number is the whole? Which is the part?"
- "Does your answer make sense? Is it smaller or bigger than the whole?"

Note from the teacher

Note from home

PREVIEW