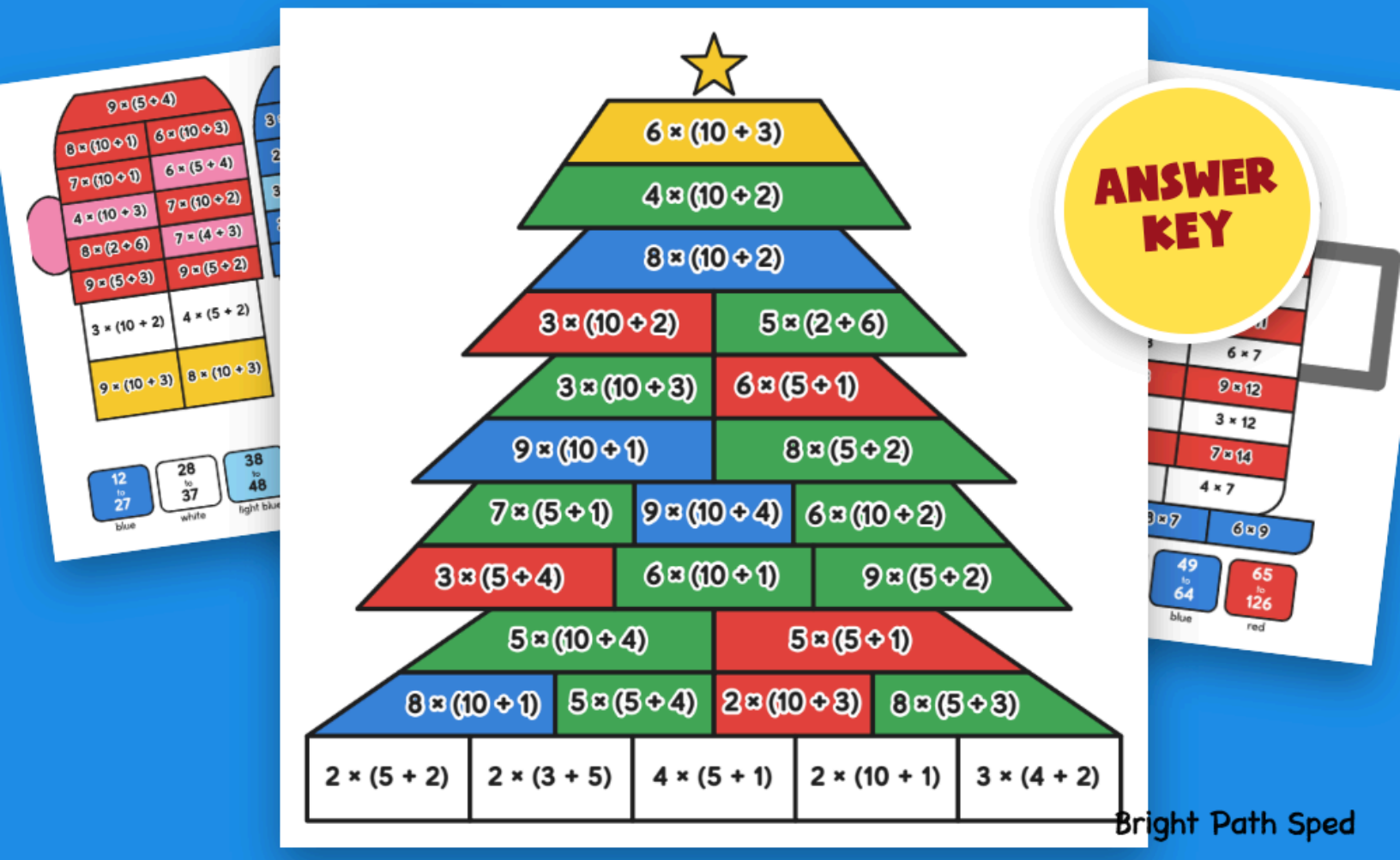
WINTER BREAK APART MULTIPLICATION COLOR BY NUMBER



Bright Path Sped

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- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a box, type, and Save As.
- The name line on the student pages, the tracker and the notes areas are type-in fields. You can also print any page and write by hand.
- 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 numbers stay big enough for small eyes. Every page prints in color or in black and white. In black and white the color key still works: each swatch carries its color word, so a child can pick up the right crayon and a teacher can read the page from across the table.

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.

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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.

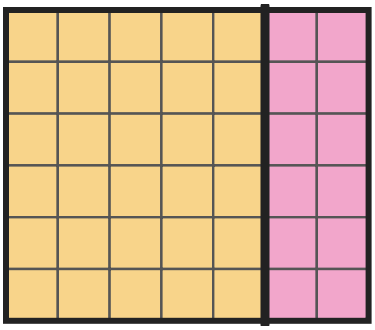
© Bright Path Sped. For single-classroom use by the original purchaser.

PREVIEW

My name _____

Split the array. Multiply each part. Add.

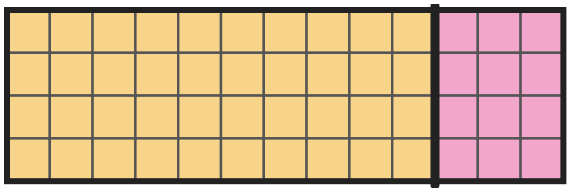
Break apart 7: 5 and 2



1. 6 rows of 7.
2. Draw a line after 5: 5 and 2.
3. 6 × 5 = 30. 6 × 2 = 12.
4. 30 + 12 = 42.

6 × 7 = (6 × 5) + (6 × 2) = 42

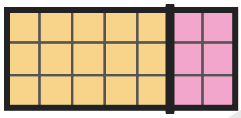
Break apart 13: 10 and 3



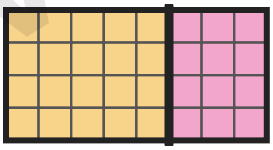
1. 4 rows of 13.
2. Draw a line after 10: 10 and 3.
3. 4 × 10 = 40. 4 × 3 = 12.
4. 40 + 12 = 52.

4 × 13 = (4 × 10) + (4 × 3) = 52

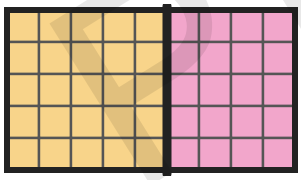
Try it. The line is drawn. Write the two products and the total.



3 × 5 = ☐
3 × 2 = ☐
3 × 7 = ☐



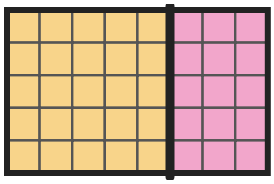
4 × 5 = ☐
4 × 3 = ☐
4 × 8 = ☐



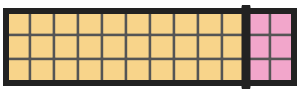
5 × 5 = ☐
5 × 4 = ☐
5 × 9 = ☐



2 × 5 = ☐
2 × 1 = ☐
2 × 6 = ☐



5 × 5 = ☐
5 × 3 = ☐
5 × 8 = ☐



3 × 10 = ☐
3 × 2 = ☐
3 × 12 = ☐

PREVIEW

My name _____

Copy a problem. Break it apart. Write the answer.

Row: first number, times, second number. Then the same problem with the second number split into two parts, the two products, and the total.

☐	×	☐	=	☐	×	(	☐	+	☐	)	=	☐	+	☐	=	☐
☐	×	☐	=	☐	×	(	☐	+	☐	)	=	☐	+	☐	=	☐
☐	×	☐	=	☐	×	(	☐	+	☐	)	=	☐	+	☐	=	☐
☐	×	☐	=	☐	×	(	☐	+	☐	)	=	☐	+	☐	=	☐
☐	×	☐	=	☐	×	(	☐	+	☐	)	=	☐	+	☐	=	☐
☐	×	☐	=	☐	×	(	☐	+	☐	)	=	☐	+	☐	=	☐
☐	×	☐	=	☐	×	(	☐	+	☐	)	=	☐	+	☐	=	☐
☐	×	☐	=	☐	×	(	☐	+	☐	)	=	☐	+	☐	=	☐

Draw an array here

PREVIEW

Divider Tab 1 of 2

Slide this sheet in front of the circle pages.



SPLIT SHOWN

The break apart is shown in every part: multiply each piece, then add. Six pictures to color.

Pages 8-14

PREVIEW

My name _____

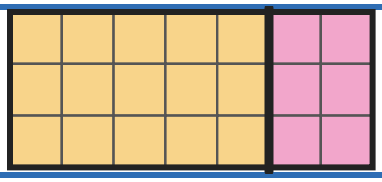
Break it apart. Add the parts. Color by the key.

2 × (3 + 4)	2 × (3 + 3)	2 × (5 + 4)
9 × (10 + 4)	7 × (10 + 2)	9 × (10 + 3)
5 × (5 + 4)	6 × (5 + 1)	8 × (2 + 4)
7 × (10 + 1)	8 × (5 + 4)	8 × (10 + 2)
5 × (10 + 1)	7 × (5 + 2)	4 × (6 + 3)
6 × (10 + 4)	6 × (10 + 3)	6 × (10 + 1)
3 × (10 + 3)	4 × (10 + 2)	5 × (10 + 2)
5 × (10 + 4)	8 × (10 + 3)	9 × (10 + 1)
7 × (2 + 6)	4 × (10 + 3)	3 × (10 + 2)
4 × (2 + 4)	3 × (10 + 1)	2 × (10 + 2)	5 × (5 + 1)

Color key: find the range with your answer, then use that crayon

12 to 22	23 to 33	34 to 63	64 to 126
brown	blue	white	red

Multiply each part. Then add the two products.



Remember: 3 × 7
= (3 × 5) + (3 × 2)
= 15 + 6 = 21

PREVIEW

Preview · Bright Path Sped

My name _____

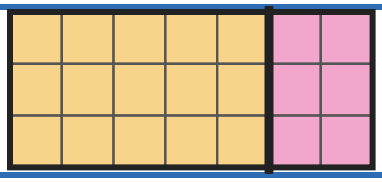
Break it apart. Add the parts. Color by the key.

	7 × (5 + 3)	
5 × (5 + 2)		2 × (10 + 3)
5 × (5 + 1)	6 × (5 + 3)	7 × (5 + 1)
4 × (5 + 1)	2 × (10 + 4)	5 × (5 + 3)
3 × (10 + 1)	5 × (5 + 4)	2 × (6 + 2)
4 × (10 + 1)	2 × (5 + 4)	3 × (5 + 2)
4 × (5 + 3)	5 × (10 + 2)	3 × (10 + 2)
8 × (5 + 4)	5 × (10 + 4)	8 × (10 + 1)
9 × (10 + 2)	9 × (10 + 3)	7 × (10 + 3)
6 × (10 + 2)		8 × (5 + 3)

Color key: find the range with your answer, then use that crayon

12 to 44	45 to 61	62 to 89	90 to 126
blue	yellow	red	white

Multiply each part. Then add the two products.



Remember: 3 × 7
= (3 × 5) + (3 × 2)
= 15 + 6 = 21

PREVIEW

Preview · Bright Path Sped

My name _____

Break it apart. Add the parts. Color by the key.

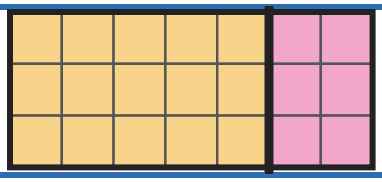
	8 × (10 + 4)		
6 × (5 + 1)	2 × (5 + 2)	2 × (10 + 2)	5 × (5 + 3)
4 × (5 + 2)	3 × (5 + 3)	2 × (10 + 3)	2 × (10 + 1)
4 × (10 + 3)	4 × (10 + 4)	7 × (5 + 2)	8 × (5 + 2)
3 × (10 + 4)	3 × (10 + 2)	5 × (5 + 2)	4 × (5 + 3)
4 × (5 + 4)	5 × (10 + 3)	6 × (10 + 3)	3 × (10 + 1)
6 × (10 + 4)	8 × (10 + 1)	7 × (10 + 4)	9 × (10 + 4)

PREVIEW

Color key: find the range with your answer, then use that crayon

12 to 42	43 to 61	62 to 79	80 to 126
red	yellow	blue	white

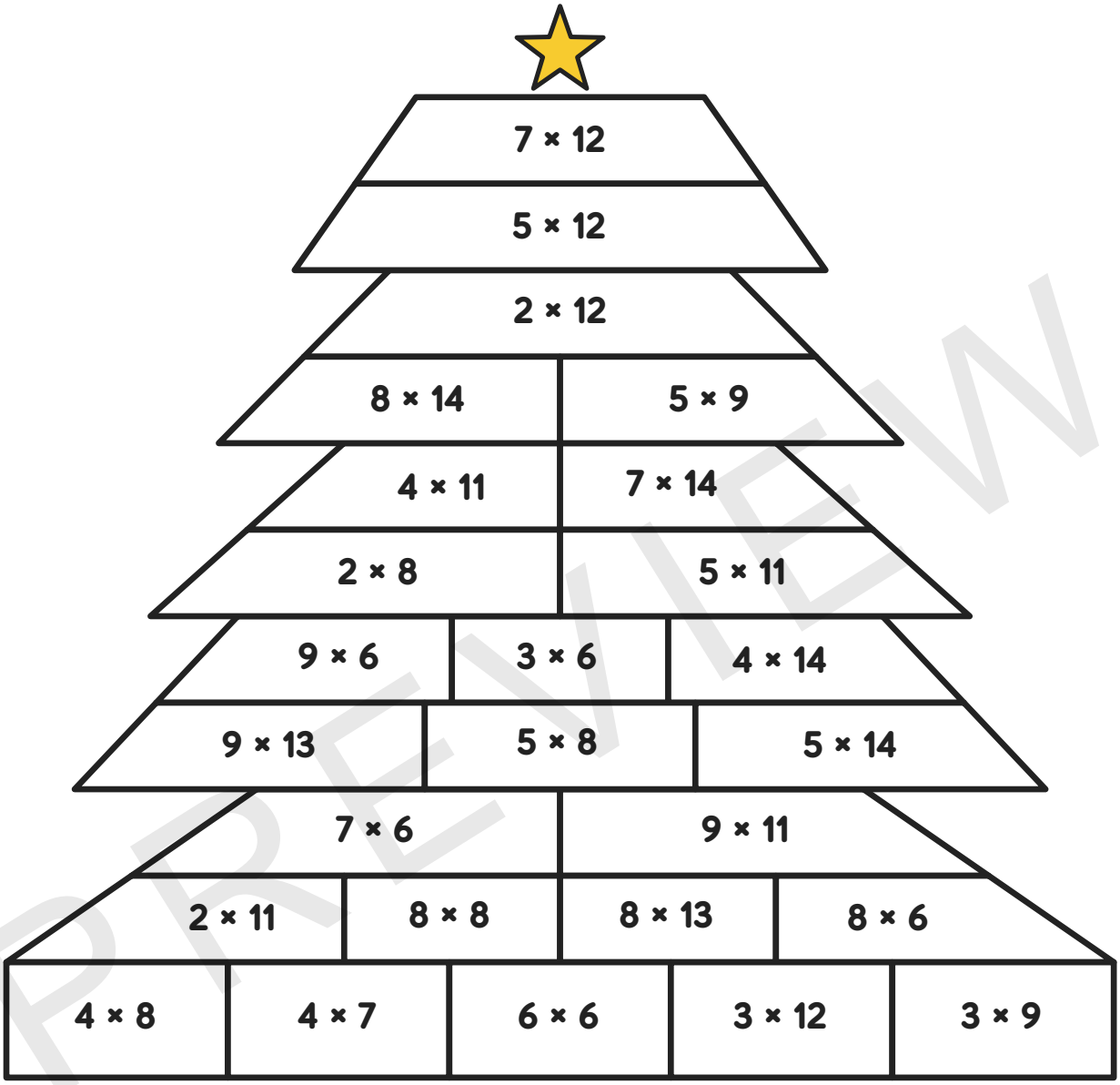
Multiply each part. Then add the two products.



Remember: 3 × 7
= (3 × 5) + (3 × 2)
= 15 + 6 = 21

My name _____

Break apart your way. Color by the key.



PREVIEW

Color key: find the range with your answer, then use that crayon

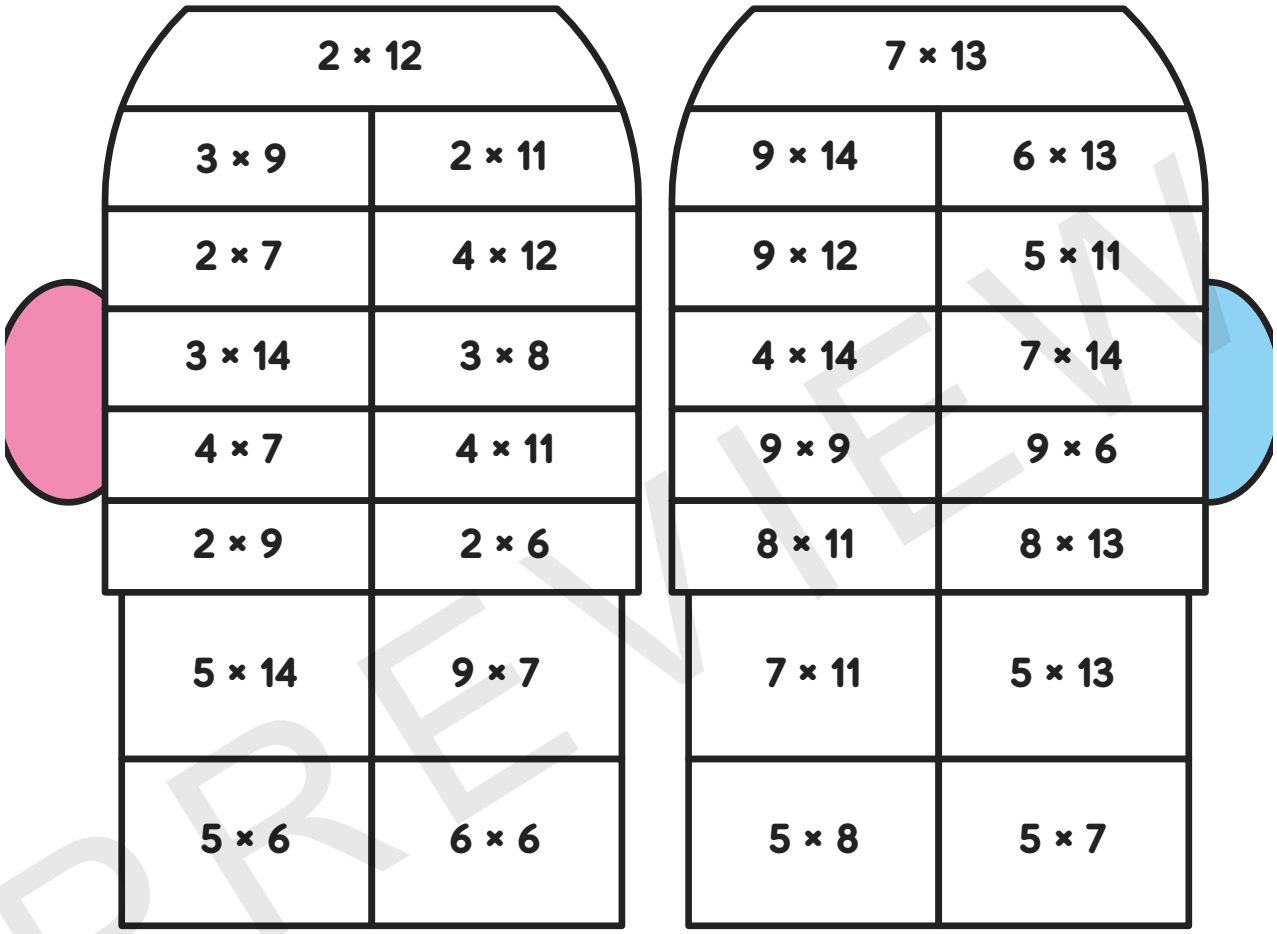
12 to 26	27 to 39	40 to 74	75 to 89	90 to 126
blue	white	green	yellow	red

Split one number. Multiply each part. Add.

Show your work

My name _____

Break apart your way. Color by the key.



PREVIEW

Color key: find the range with your answer, then use that crayon

12 to 28	29 to 40	41 to 48	49 to 61	62 to 77	78 to 126
red	yellow	pink	light blue	white	blue

Split one number. Multiply each part. Add.

Show your work

My name _____

Break apart your way. Color by the key.

8 × 6	4 × 12
6 × 12	7 × 12
6 × 9	7 × 11
3 × 11	2 × 14
8 × 8	6 × 13
9 × 9	7 × 13

6 × 14	5 × 14	8 × 14
6 × 11	9 × 8	7 × 14

7 × 7	4 × 11	3 × 13	6 × 6
2 × 8	3 × 7	2 × 11	2 × 12

Color key: find the range with your answer, then use that crayon

12 to 24	25 to 33	34 to 50	51 to 96	97 to 126
brown	light blue	white	blue	red

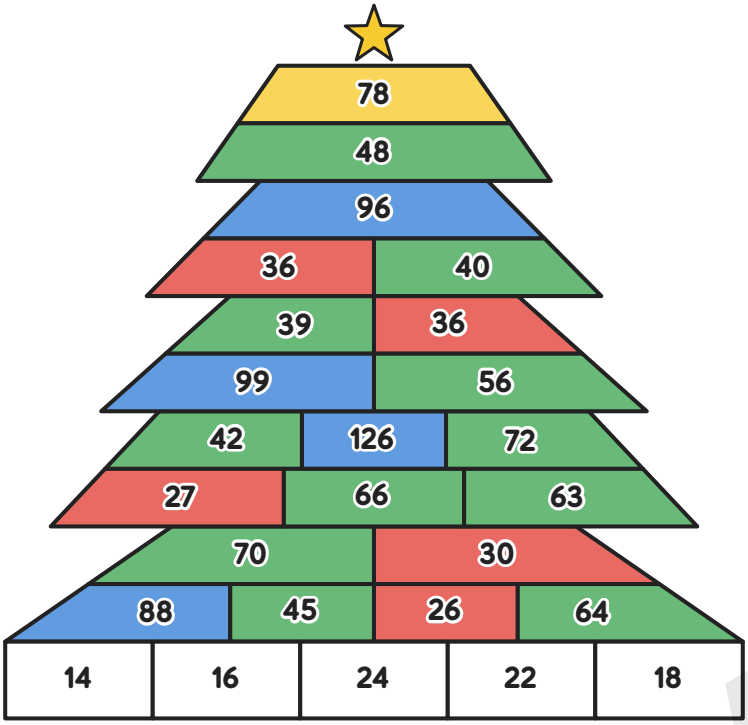
Split one number. Multiply each part. Add.

Show your work

PREVIEW

Answer Key 1

Each finished picture shows the answer in every part.



Page 9 - Pine Tree (Split Shown)

Answer range, color, and the problems with their answers.

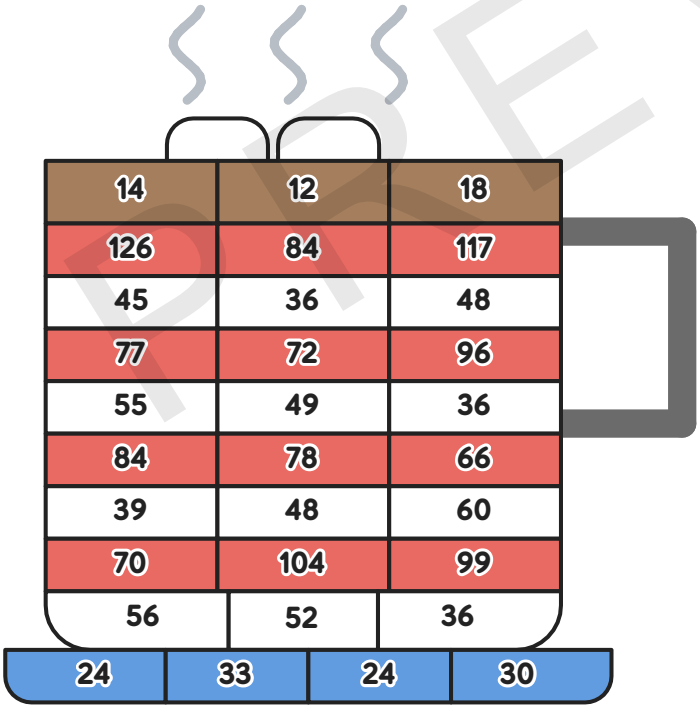
12–24 white: 2 × (5 + 2) = 10 + 4 = 14, 2 × (3 + 5) = 6 + 10 = 16, 3 × (4 + 2) = 12 + 6 = 18, 2 × (10 + 1) = 20 + 2 = 22, 4 × (5 + 1) = 20 + 4 = 24.

25–37 red: 2 × (10 + 3) = 20 + 6 = 26, 3 × (5 + 4) = 15 + 12 = 27, 5 × (5 + 1) = 25 + 5 = 30, 3 × (10 + 2) = 30 + 6 = 36, 6 × (5 + 1) = 30 + 6 = 36.

38–77 green: 3 × (10 + 3) = 30 + 9 = 39, 5 × (2 + 6) = 10 + 30 = 40, 7 × (5 + 1) = 35 + 7 = 42, 5 × (5 + 4) = 25 + 20 = 45, 4 × (10 + 2) = 40 + 8 = 48, 8 × (5 + 2) = 40 + 16 = 56, 9 × (5 + 2) = 45 + 18 = 63, 8 × (5 + 3) = 40 + 24 = 64, 6 × (10 + 1) = 60 + 6 = 66, 5 × (10 + 4) = 50 + 20 = 70, 6 × (10 + 2) = 60 + 12 = 72.

78–85 yellow: 6 × (10 + 3) = 60 + 18 = 78.

86–126 blue: 8 × (10 + 1) = 80 + 8 = 88, 8 × (10 + 2) = 80 + 16 = 96, 9 × (10 + 1) = 90 + 9 = 99, 9 × (10 + 4) = 90 + 36 = 126.



Page 10 - Cocoa Mug (Split Shown)

Answer range, color, and the problems with their answers.

12–22 brown: 2 × (3 + 3) = 6 + 6 = 12, 2 × (3 + 4) = 6 + 8 = 14, 2 × (5 + 4) = 10 + 8 = 18.

23–33 blue: 2 × (10 + 2) = 20 + 4 = 24, 4 × (2 + 4) = 8 + 16 = 24, 5 × (5 + 1) = 25 + 5 = 30, 3 × (10 + 1) = 30 + 3 = 33.

34–63 white: 3 × (10 + 2) = 30 + 6 = 36, 4 × (6 + 3) = 24 + 12 = 36, 6 × (5 + 1) = 30 + 6 = 36, 3 × (10 + 3) = 30 + 9 = 39, 5 × (5 + 4) = 25 + 20 = 45, 4 × (10 + 2) = 40 + 8 = 48, 8 × (2 + 4) = 16 + 32 = 48, 7 × (5 + 2) = 35 + 14 = 49, 4 × (10 + 3) = 40 + 12 = 52, 5 × (10 + 1) = 50 + 5 = 55, 7 × (2 + 6) = 14 + 42 = 56, 5 × (10 + 2) = 50 + 10 = 60.

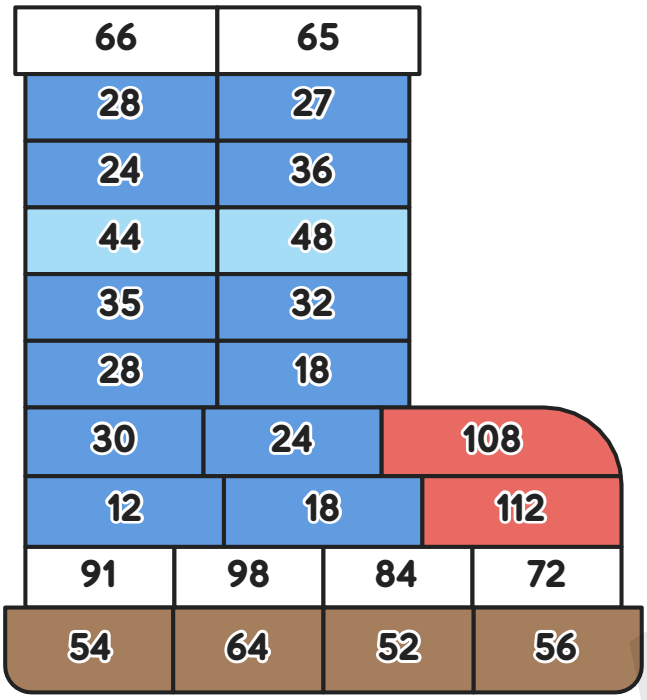
64–126 red: 6 × (10 + 1) = 60 + 6 = 66, 5 × (10 + 4) = 50 + 20 = 70, 8 × (5 + 4) = 40 + 32 = 72, 7 × (10 + 1) = 70 + 7 = 77, 6 × (10 + 3) = 60 + 18 = 78, 6 × (10 + 4) = 60 + 24 = 84, 7 × (10 + 2) = 70 + 14 = 84, 8 × (10 + 2) = 80 + 16 = 96, 9 × (10 + 1) = 90 + 9 = 99, 8 × (10 + 3) = 80 + 24 = 104, 9 × (10 + 3) = 90 + 27 = 117, 9 × (10 + 4) = 90 + 36 = 126.

Hold the child's picture next to the finished one. A part is right when its color matches the key for its answer. If a part is different, ask the child to work it again, or look at pages 4 and 5. Record how many parts match on the tracker (page 28). The number in each finished part is its answer.

PREVIEW

Answer Key 3

Each finished picture shows the answer in every part.



Page 13 - Snow Boot (Split Shown)

Answer range, color, and the problems with their answers.

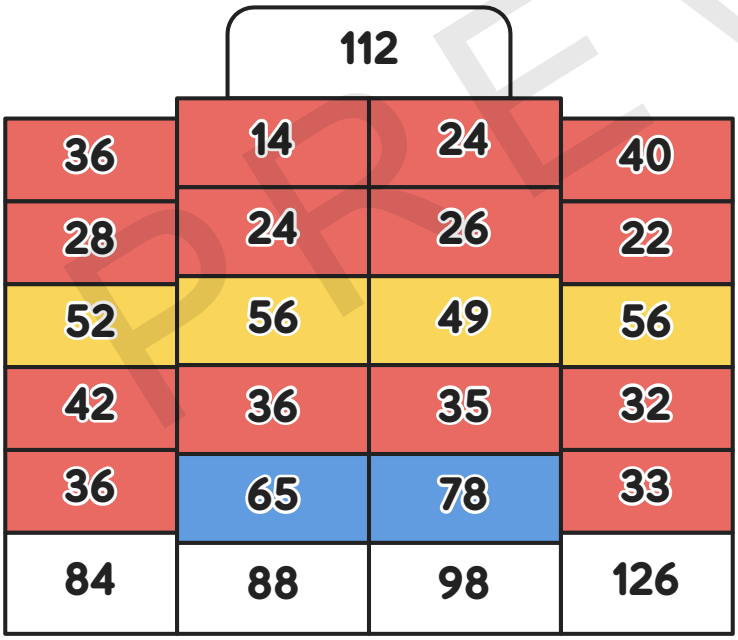
12–37 blue: 2 × (2 + 4) = 4 + 8 = 12, 2 × (5 + 4) = 10 + 8 = 18, 3 × (2 + 4) = 6 + 12 = 18, 2 × (10 + 2) = 20 + 4 = 24, 3 × (3 + 5) = 9 + 15 = 24, 3 × (5 + 4) = 15 + 12 = 27, 2 × (10 + 4) = 20 + 8 = 28, 4 × (4 + 3) = 16 + 12 = 28, 5 × (5 + 1) = 25 + 5 = 30, 4 × (5 + 3) = 20 + 12 = 32, 5 × (2 + 5) = 10 + 25 = 35, 6 × (5 + 1) = 30 + 6 = 36.

38–48 light blue: 4 × (10 + 1) = 40 + 4 = 44, 4 × (10 + 2) = 40 + 8 = 48.

49–64 brown: 4 × (10 + 3) = 40 + 12 = 52, 6 × (5 + 4) = 30 + 24 = 54, 4 × (10 + 4) = 40 + 16 = 56, 8 × (5 + 3) = 40 + 24 = 64.

65–98 white: 5 × (10 + 3) = 50 + 15 = 65, 6 × (10 + 1) = 60 + 6 = 66, 8 × (5 + 4) = 40 + 32 = 72, 6 × (10 + 4) = 60 + 24 = 84, 7 × (10 + 3) = 70 + 21 = 91, 7 × (10 + 4) = 70 + 28 = 98.

99–126 red: 9 × (10 + 2) = 90 + 18 = 108, 8 × (10 + 4) = 80 + 32 = 112.



Page 14 - Sweater (Split Shown)

Answer range, color, and the problems with their answers.

12–42 red: 2 × (5 + 2) = 10 + 4 = 14, 2 × (10 + 1) = 20 + 2 = 22, 2 × (10 + 2) = 20 + 4 = 24, 3 × (5 + 3) = 15 + 9 = 24, 2 × (10 + 3) = 20 + 6 = 26, 4 × (5 + 2) = 20 + 8 = 28, 4 × (5 + 3) = 20 + 12 = 32, 3 × (10 + 1) = 30 + 3 = 33, 5 × (5 + 2) = 25 + 10 = 35, 3 × (10 + 2) = 30 + 6 = 36, 4 × (5 + 4) = 20 + 16 = 36, 6 × (5 + 1) = 30 + 6 = 36, 5 × (5 + 3) = 25 + 15 = 40, 3 × (10 + 4) = 30 + 12 = 42.

43–61 yellow: 7 × (5 + 2) = 35 + 14 = 49, 4 × (10 + 3) = 40 + 12 = 52, 4 × (10 + 4) = 40 + 16 = 56, 8 × (5 + 2) = 40 + 16 = 56.

62–79 blue: 5 × (10 + 3) = 50 + 15 = 65, 6 × (10 + 3) = 60 + 18 = 78.

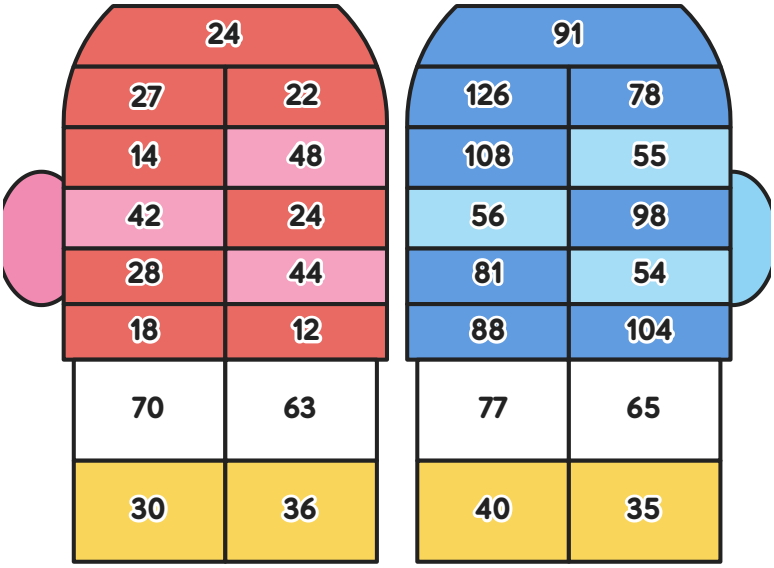
80–126 white: 6 × (10 + 4) = 60 + 24 = 84, 8 × (10 + 1) = 80 + 8 = 88, 7 × (10 + 4) = 70 + 28 = 98, 8 × (10 + 4) = 80 + 32 = 112, 9 × (10 + 4) = 90 + 36 = 126.

Hold the child's picture next to the finished one. A part is right when its color matches the key for its answer. If a part is different, ask the child to work it again, or look at pages 4 and 5. Record how many parts match on the tracker (page 28). The number in each finished part is its answer.

PREVIEW

Answer Key 5

Each finished picture shows the answer in every part.



Page 18 - Mittens (Numbers Only)

Answer range, color, and the problems with their answers.

12–28 red: 2 × 6 = 12, 2 × 7 = 14, 2 × 9 = 18, 2 × 11 = 22, 2 × 12 = 24, 3 × 8 = 24, 3 × 9 = 27, 4 × 7 = 28.

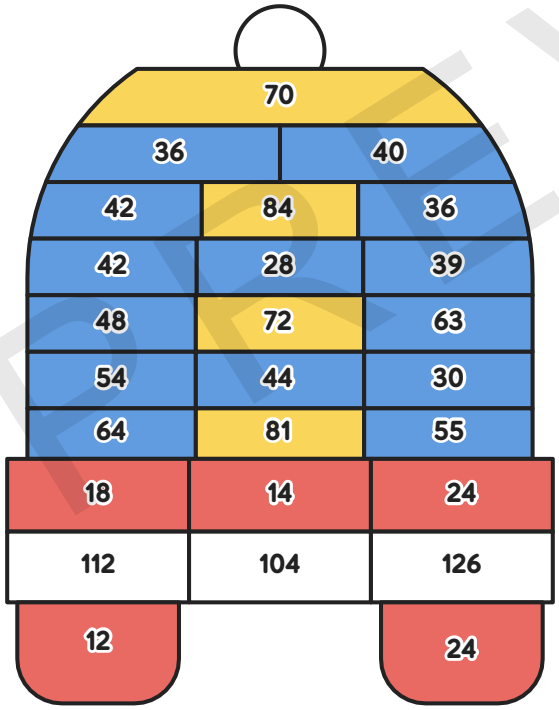
29–40 yellow: 5 × 6 = 30, 5 × 7 = 35, 6 × 6 = 36, 5 × 8 = 40.

41–48 pink: 3 × 14 = 42, 4 × 11 = 44, 4 × 12 = 48.

49–61 light blue: 9 × 6 = 54, 5 × 11 = 55, 4 × 14 = 56.

62–77 white: 9 × 7 = 63, 5 × 13 = 65, 5 × 14 = 70, 7 × 11 = 77.

78–126 blue: 6 × 13 = 78, 9 × 9 = 81, 8 × 11 = 88, 7 × 13 = 91, 7 × 14 = 98, 8 × 13 = 104, 9 × 12 = 108, 9 × 14 = 126.



Page 19 - Winter Hat (Numbers Only)

Answer range, color, and the problems with their answers.

12–27 red: 2 × 6 = 12, 2 × 7 = 14, 2 × 9 = 18, 2 × 12 = 24, 4 × 6 = 24.

28–65 blue: 4 × 7 = 28, 5 × 6 = 30, 4 × 9 = 36, 6 × 6 = 36, 3 × 13 = 39, 5 × 8 = 40, 3 × 14 = 42, 6 × 7 = 42, 4 × 11 = 44, 8 × 6 = 48, 9 × 6 = 54, 5 × 11 = 55, 9 × 7 = 63, 8 × 8 = 64.

66–93 yellow: 5 × 14 = 70, 8 × 9 = 72, 9 × 9 = 81, 6 × 14 = 84.

94–126 white: 8 × 13 = 104, 8 × 14 = 112, 9 × 14 = 126.

Hold the child's picture next to the finished one. A part is right when its color matches the key for its answer. If a part is different, ask the child to work it again, or look at pages 4 and 5. Record how many parts match on the tracker (page 28). The number in each finished part is its answer.

PREVIEW

Tracker

For each page, write the date and how many parts were colored right. A blank row means not done yet, never wrong.

Student _____ Teacher _____ School year _____

Page	Picture	Set	Date	Right	Out of	Notes
9	Pine Tree	Split shown			26	
10	Cocoa Mug	Split shown			31	
11	Mittens	Split shown			30	
12	Winter Hat	Split shown			26	
13	Snow Boot	Split shown			26	
14	Sweater	Split shown			25	
16	Pine Tree	Numbers only			26	
17	Cocoa Mug	Numbers only			31	
18	Mittens	Numbers only			30	
19	Winter Hat	Numbers only			26	
20	Snow Boot	Numbers only			26	
21	Sweater	Numbers only			25	

What I noticed about the splits

What to practice next

Notes

PREVIEW

Preview · Bright Path Sped

Breaking Apart at Home

Send this page home with a child, or hand it to a family at a conference. Change the numbers to match your week.

Student _____ Week of _____

How to help at home, in three steps

- Say the problem out loud: "6 times 7." Then break the 7 into 5 and 2.
- Multiply each part: 6 times 5, and 6 times 2. Write both products.
- Add the two products. Then find the answer in the color key on the page, and color that part together. Color two or three parts, then stop while it is still going well.

Problems to try together

3 × 7 = 3 × (5 + 2) = ☐ + ☐ = ☐

4 × 8 = 4 × (5 + 3) = ☐ + ☐ = ☐

6 × 6 = 6 × (5 + 1) = ☐ + ☐ = ☐

5 × 12 = 5 × (10 + 2) = ☐ + ☐ = ☐

4 × 13 = 4 × (10 + 3) = ☐ + ☐ = ☐

Try saying

- "Which part is easy for you? 5? 10?"
- "What is the first product? What is the second?"
- "Do the two parts add back to the whole number?"

Note from the teacher

Note from home

PREVIEW