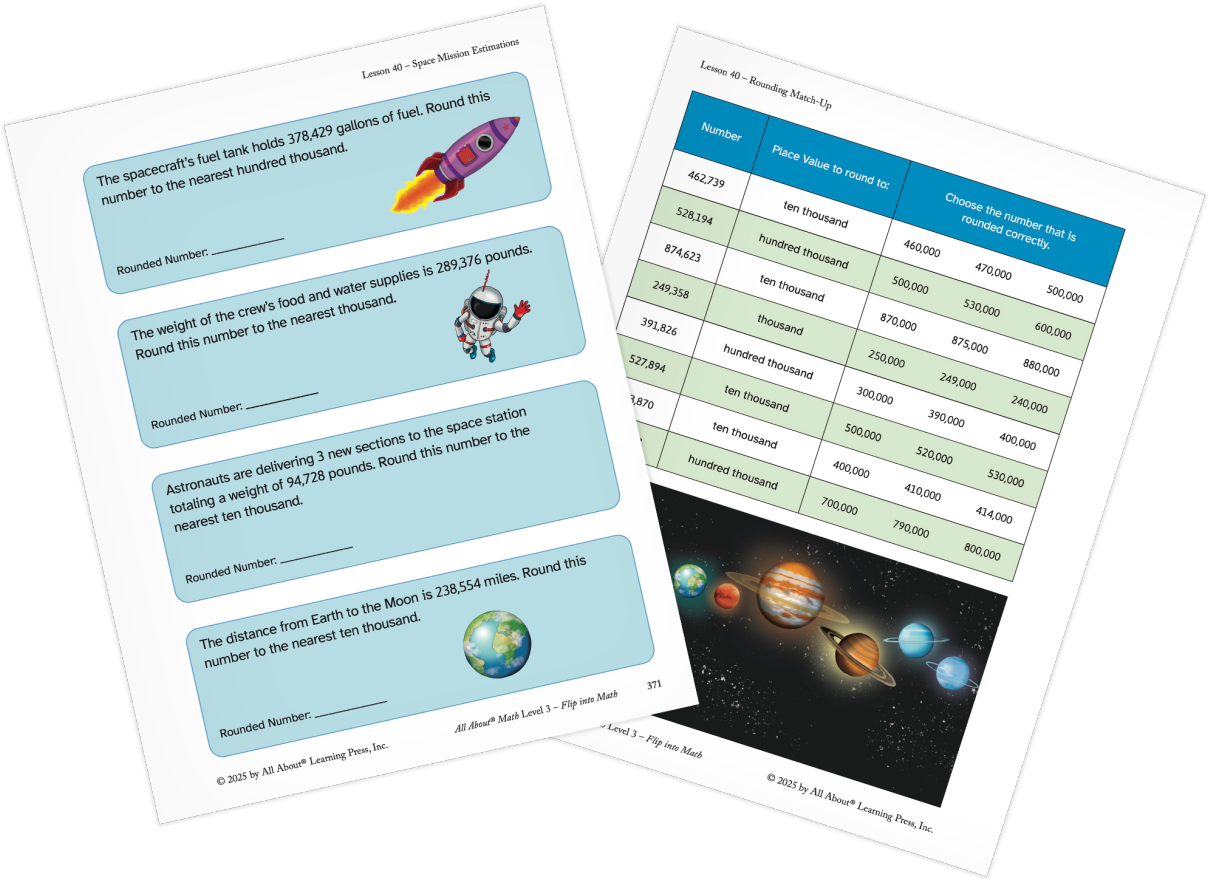
ALL ABOUT® Math

The program that takes the struggle out of math

Level 3 Activity Book Sample

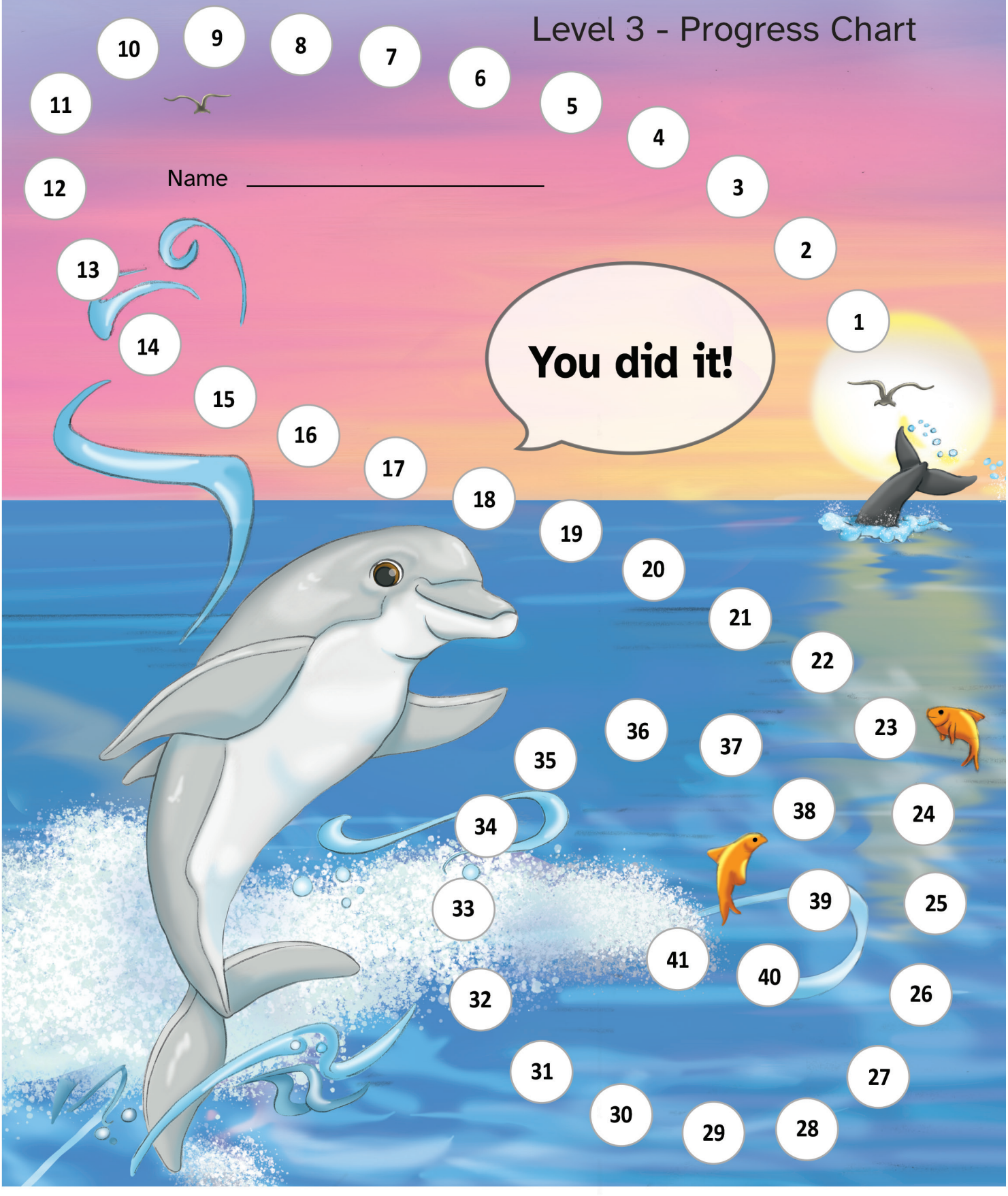
In this sample you will find:



All About® Math

Level 3 - Progress Chart

Name _____



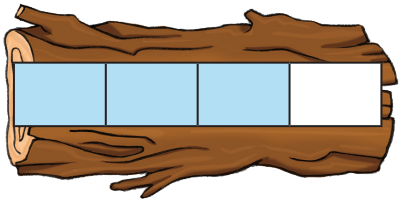
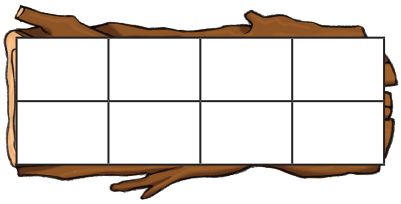
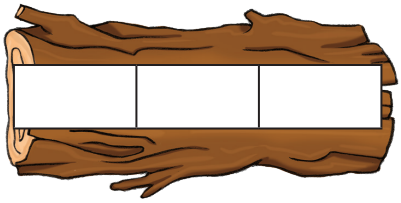
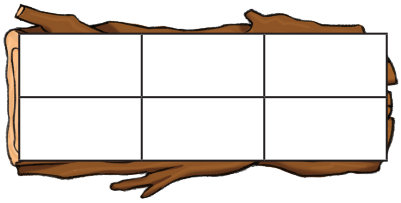
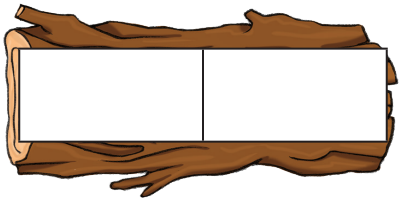
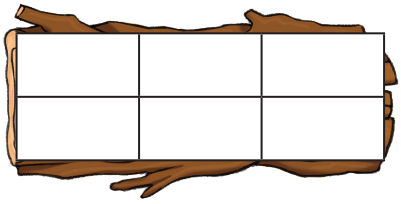
Level 3 Daily Review Tracker

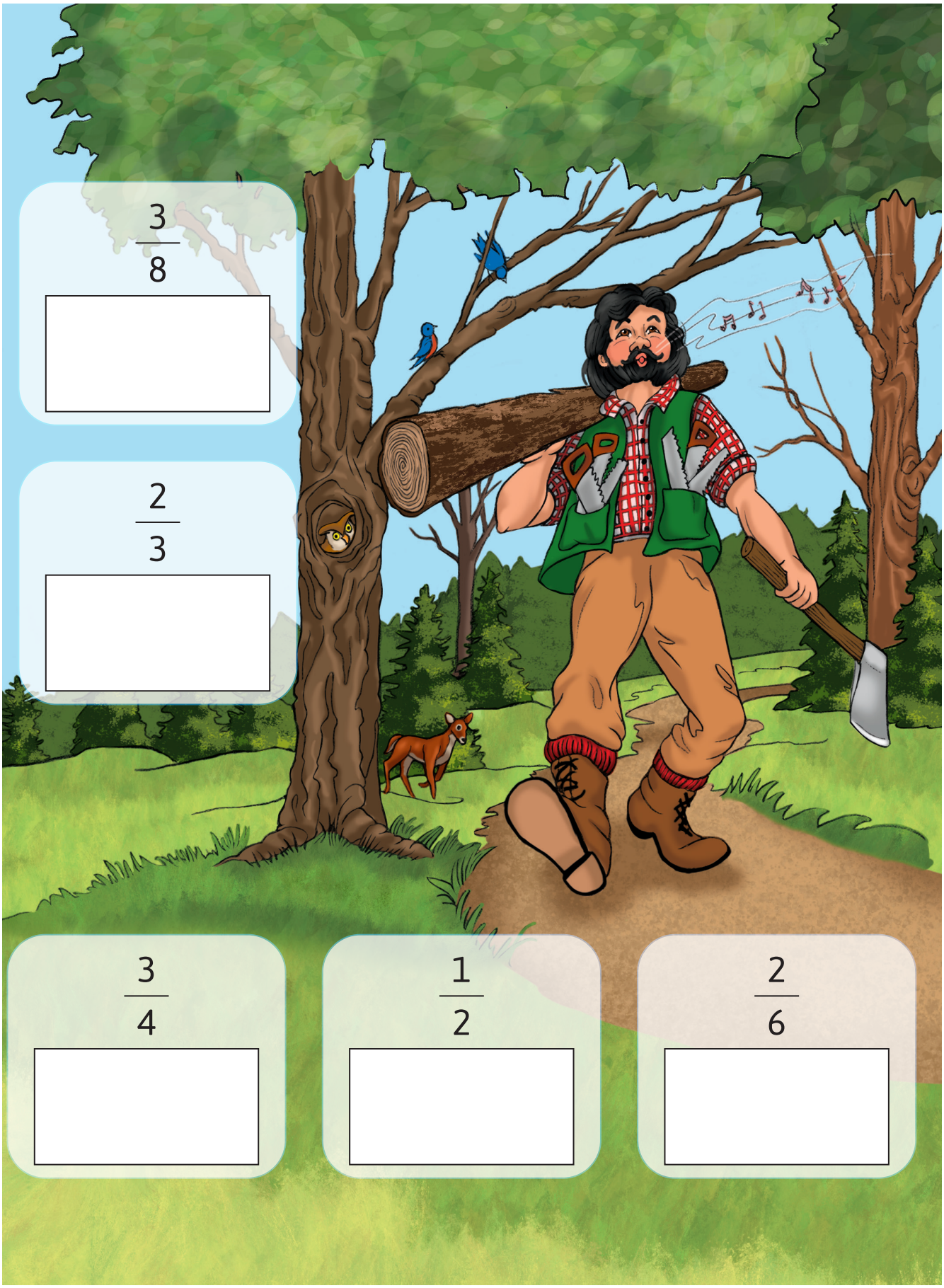
Date Started	Skill	Lessons and Notes	Date Mastered
	Name and write fractions.	2: parts of a fraction 3: partitioning fractions 4: reading and writing fractions	
	Identify and name 2D and 3D shapes.	4: ☐ quadrilateral ☐ angle ☐ rhombus ☐ vertex 6: ☐ parallel ☐ parallelogram ☐ trapezoid 9: ☐ polygon 10: ☐ base ☐ face ☐ cube ☐ cylinder 16: ☐ sphere ☐ square pyramid ☐ triangular pyramid 17: ☐ rectangular prism ☐ triangular prism ☐ cone	
	Represent a given fraction using models or drawings.	5: identifying shaded fractions 6: building fractions 7: fractions in story problems	
	Identifying fractions on a number line.	8: identifying and naming 9: recognizing whole numbers	
	Comparing fractions.	10: identifying equivalent fraction models 11: same denominator 12: same numerator 13: fractions in story problems	
	Write multiplication expressions and equations for equal groups.	15, 16: multiplication expressions 21: commutative property of multiplication	
	Relate repeated addition of equal groups to multiplication.	17	

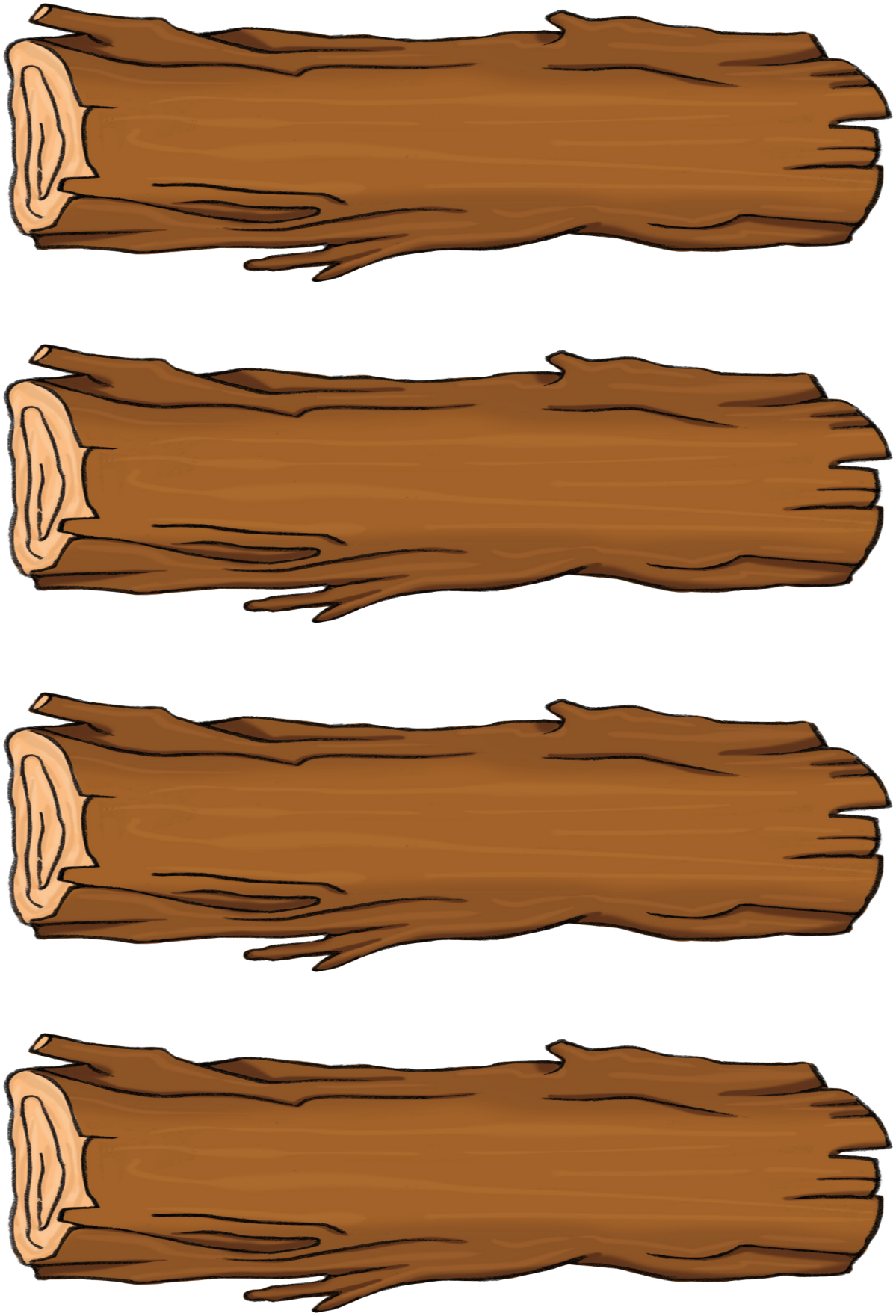
Date Started	Skill	Lessons and Notes	Date Mastered
	Identify multiplication expressions for arrays.	18: creating arrays 19: connecting arrays to expressions 20: writing an equation to solve	
	Understand division as an unknown-factor problem.	23: relate multiplication and division 24: recognize division as an unknown factor in story problems	
	Relate multiplication and division to groups of objects or drawings.	25: write equations 26: identify multiplication/division equations to represent arrays 27: represent and solve story problems 28: identify multiplication facts and related division facts	
	Explain patterns on a multiplication table.	30	
	Multiply and divide within 100 using strategies.	31: multiply within 100 using base-10 blocks and tape diagrams 32: represent division using base-10 blocks and drawings	
	Solve two-step story problems.	33: making sense of two-step problems 34: represent and solve two-step story problems	
	Read and write nine-digit whole numbers.	36	
	Comparing and ordering four whole numbers expressed through millions.	37: comparing 38: ordering	
	Round whole numbers within a million to the nearest thousand, ten thousand, and hundred thousand places.	39 40: determine the appropriateness of rounding based on situations	

Adding and Subtracting Three-Digit Numbers Using Expanded Form

192 + 702 = _____	
586 - 352 = _____	
641 - 231 = _____	
474 + 222 = _____	
488 - 311 = _____	

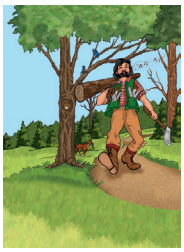
Model	Total Number of Equal Parts	Total Number of Parts Sold	Unit Fraction	Fraction Sold
	4	3	$\frac{1}{4}$	$\frac{3}{4}$
		5		$\frac{5}{8}$
	3	2	$\frac{1}{3}$	
	6			$\frac{5}{6}$
		2		$\frac{2}{2}$
	6	3		



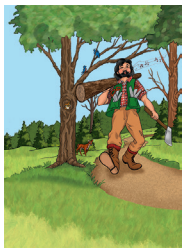


$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{3}$
$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{4}$
$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{6}$	$\frac{1}{6}$

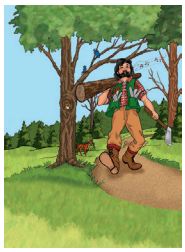
Logger's Secret Fractions



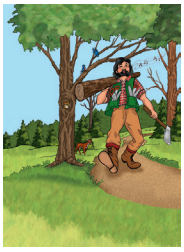
Logger's Secret Fractions



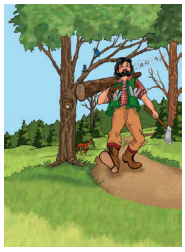
Logger's Secret Fractions



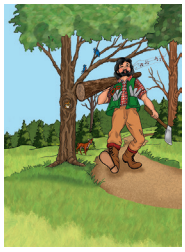
Logger's Secret Fractions



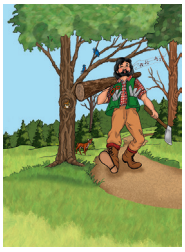
Logger's Secret Fractions



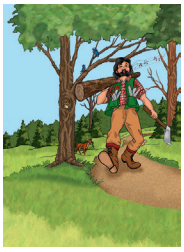
Logger's Secret Fractions



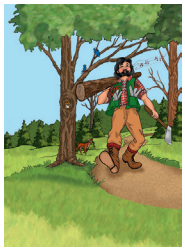
Logger's Secret Fractions



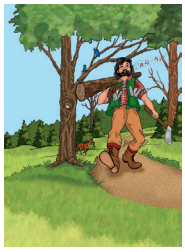
Logger's Secret Fractions



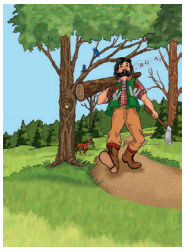
Logger's Secret Fractions



Logger's Secret Fractions



Logger's Secret Fractions



$\frac{2}{3}$ $\frac{3}{3}$ $\frac{2}{4}$

$\frac{3}{4}$ $\frac{4}{4}$ $\frac{2}{6}$ $\frac{4}{6}$

$\frac{5}{6}$ $\frac{2}{8}$ $\frac{3}{8}$ $\frac{5}{8}$

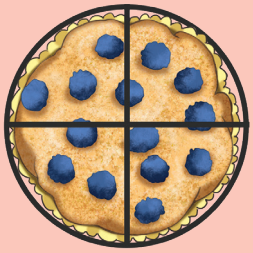
Subtracting Three-Digit Numbers

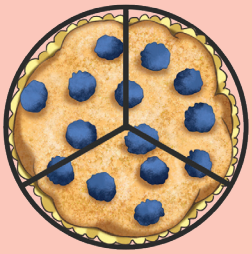
859 - 334	738 - 626

921 - 710 = _____ - _____

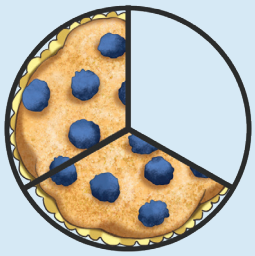
492 - 182 = _____ - _____

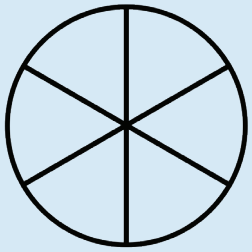
603 - 401 = _____ - _____





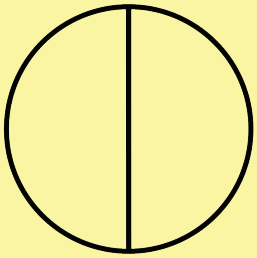
Are they equivalent? Yes No



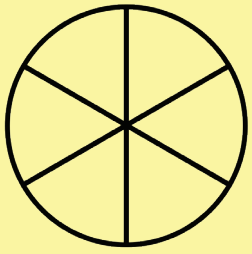


$\frac{2}{6}$

Are they equivalent? Yes No

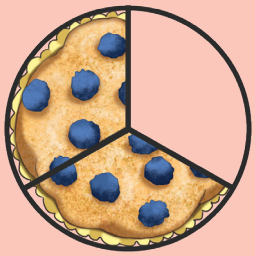


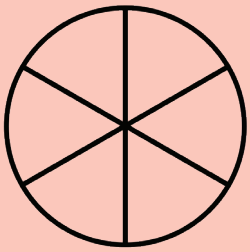
$\frac{1}{2}$



$\frac{3}{6}$

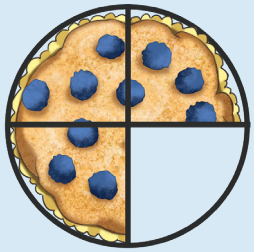
Are they equivalent? Yes No

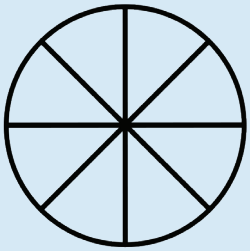




$\frac{4}{6}$

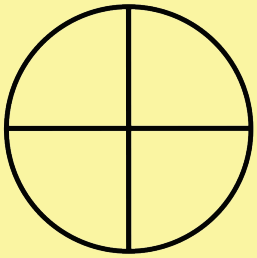
Are they equivalent? Yes No



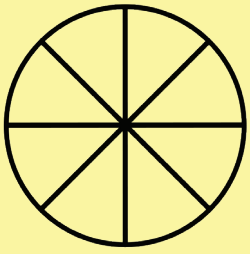


$\frac{2}{8}$

Are they equivalent? Yes No



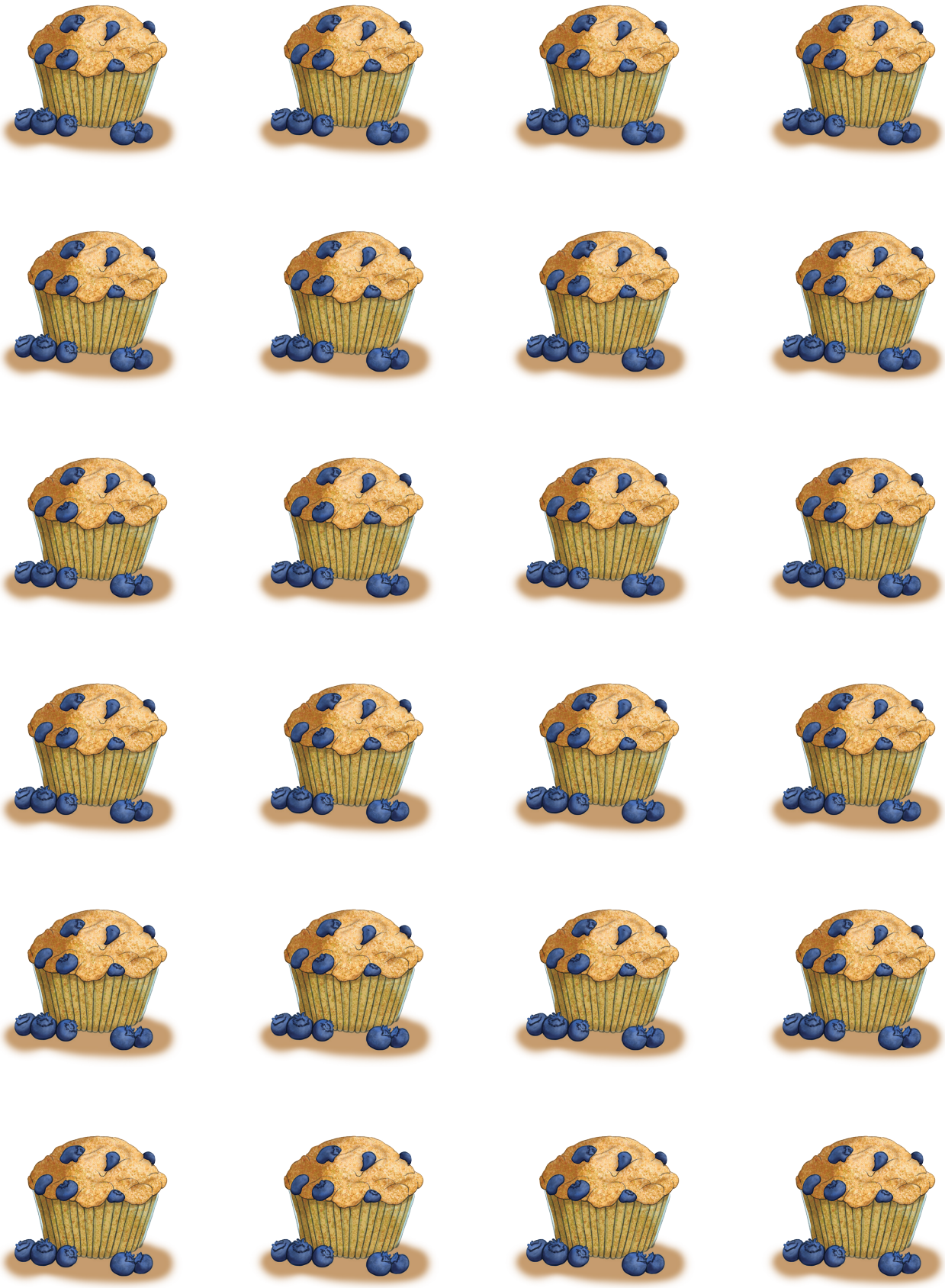
$\frac{3}{4}$

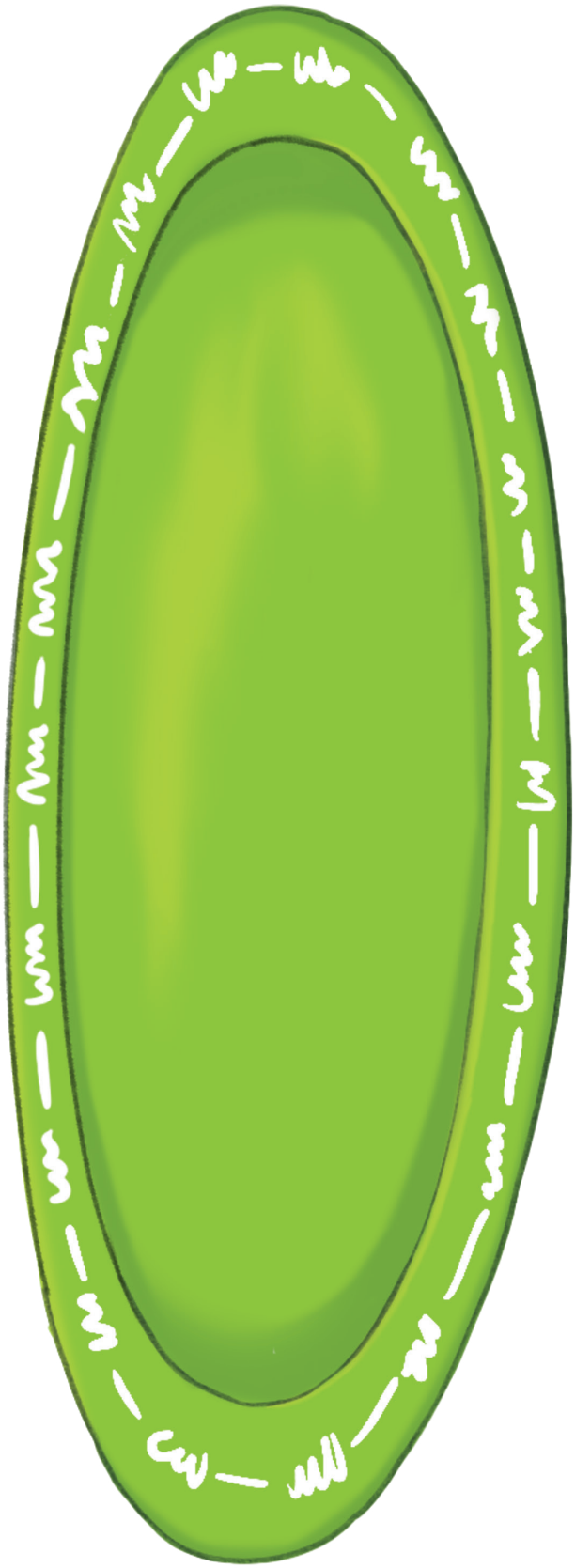


$\frac{6}{8}$

Are they equivalent? Yes No

$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{2}{4}$
$\frac{2}{4}$	$\frac{3}{6}$	$\frac{3}{6}$	$\frac{3}{6}$
$\frac{1}{3}$	$\frac{2}{6}$	$\frac{3}{4}$	$\frac{6}{8}$
$\frac{1}{3}$	$\frac{2}{6}$	$\frac{3}{4}$	$\frac{6}{8}$
$\frac{3}{3}$	$\frac{2}{2}$	$\frac{4}{4}$	$\frac{8}{8}$
$\frac{6}{6}$	$\frac{2}{3}$	$\frac{4}{6}$	$\frac{2}{2}$



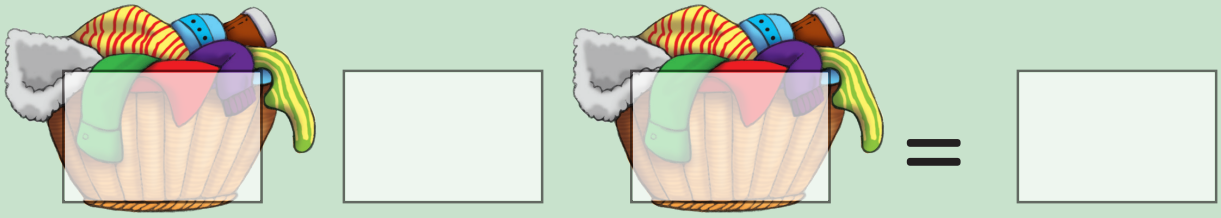


Adding and Subtracting Three-Digit Numbers

452 - 101 = _____	
365 + 424 = _____	
709 - 325 = _____	
246 + 637 = _____	
623 - 278 = _____	

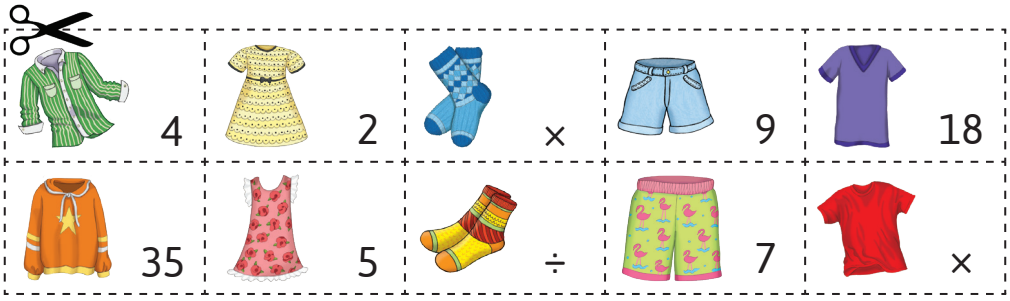
$35 \div \_\_\_\_ = 7$

There are 35 items of clothing placed into some baskets. Each basket has 7 pieces of clothing.



$18 \div \_\_\_\_ = 9$

There are 18 pieces of laundry placed into some baskets. There are 9 pieces in each basket.

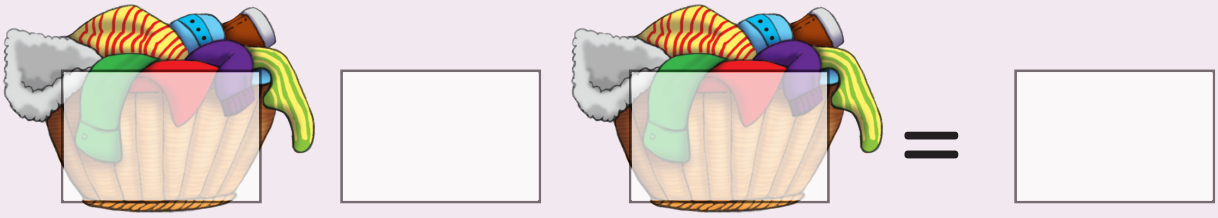


$24 \div \_\_\_\_ = 6$

There are 24 pieces of laundry to wash. The laundry is evenly divided into 6 baskets.

$21 \div \_\_\_\_ = 3$

There are 21 pieces of laundry to fold. The laundry is split equally into 3 baskets.



A 10 ÷ ___ = 5	B 81 ÷ ___ = 9	C 24 ÷ ___ = 3
D 15 ÷ ___ = 5	E 54 ÷ ___ = 9	F 27 ÷ ___ = 9
G 20 ÷ ___ = 10	H 8 ÷ ___ = 2	I 28 ÷ ___ = 4
J 24 ÷ ___ = 6	K 12 ÷ ___ = 4	L 30 ÷ ___ = 6
M 2 ÷ ___ = 1	N 16 ÷ ___ = 8	O 32 ÷ ___ = 8
P 4 ÷ ___ = 2	Q 16 ÷ ___ = 4	R 36 ÷ ___ = 6
S 6 ÷ ___ = 3	T 18 ÷ ___ = 9	U 40 ÷ ___ = 5
V 7 ÷ ___ = 7	W 9 ÷ ___ = 3	X 42 ÷ ___ = 7
Skip a turn.	Choose another card.	Skip a turn.
Skip a turn.	Choose another card.	Skip a turn.

Comparing Fractions with the Same Denominator

$\frac{3}{8}$ ◯ $\frac{5}{8}$	$\frac{4}{3}$ ◯ $\frac{2}{3}$
$\frac{3}{4}$ ◯ $\frac{4}{4}$	$\frac{1}{6}$ ◯ $\frac{5}{6}$
$\frac{6}{6}$ ◯ $\frac{8}{6}$	$\frac{5}{8}$ ◯ $\frac{4}{8}$

$2 \times 37 =$ _____

2	30	7
	60	

$3 \times 32 =$ _____

_____	_____	_____
_____		

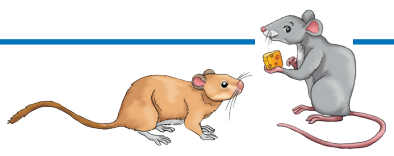
$2 \times 43 =$ _____

_____	_____	_____
_____		

$4 \times 17 =$ _____

_____	_____	_____
_____		

$3 \times 29 =$ _____

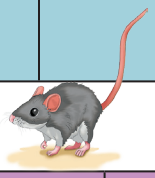


_____ × _____ = _____

Gameboard A

22	48	96	52	32	60
99	11	26	66	84	44
42	80	54	20	30	72
13	63	39	18	69	45
92	36	88	46	33	40

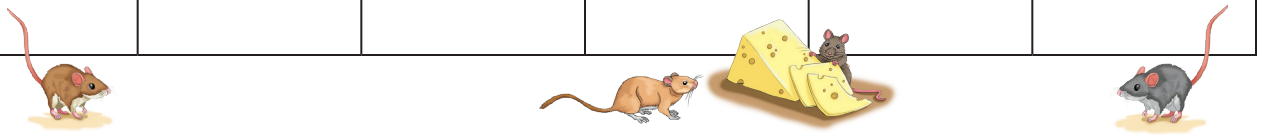
1	2	3	4



11	13	15	16	18
20	21	22	23	24

Gameboard B

48	36	24	19	42	66
76	60	34	22	12	40
57	68	88	17	46	39
96	72	38	21	44	91
80	63	26	13	56	84



1	2	3	4

12	13	14	17	19
20	21	22	23	24

Solving Story Problems

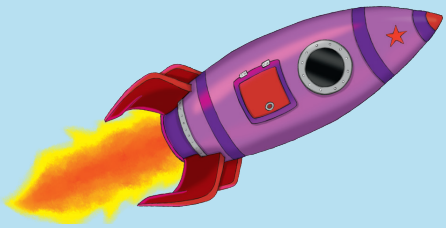
Commander Lena is preparing her personal preference kit before she goes on a deep-space mission. She orders 3 new books to read, each costing $12. She wants to take a picture of her dog with her, so she buys a picture frame for $8. How much did Commander Lena spend in total?

Mission Control has 90 communication devices to distribute equally among 9 space missions. How many communication devices does each mission receive?

Mission Control sent 120 oxygen tanks to be divided equally among 6 research stations. After distributing the tanks, they also delivered 2 emergency tool kits to each station. How many oxygen tanks did each research station receive?

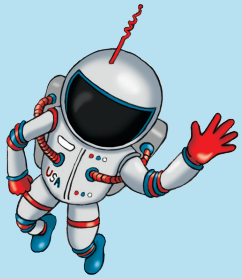
Mission Control has asked a team member to order food supplies for the space expedition. Nine of the meal packs on the list are dehydrated and require two cups of water each in order to make them. There are only ten cups of water on the supply list. How many more cups of water need to be added to the supply list?

The spacecraft's fuel tank holds 378,429 gallons of fuel. Round this number to the nearest hundred thousand.



Rounded Number: _____

The weight of the crew's food and water supplies is 289,376 pounds. Round this number to the nearest thousand.



Rounded Number: _____

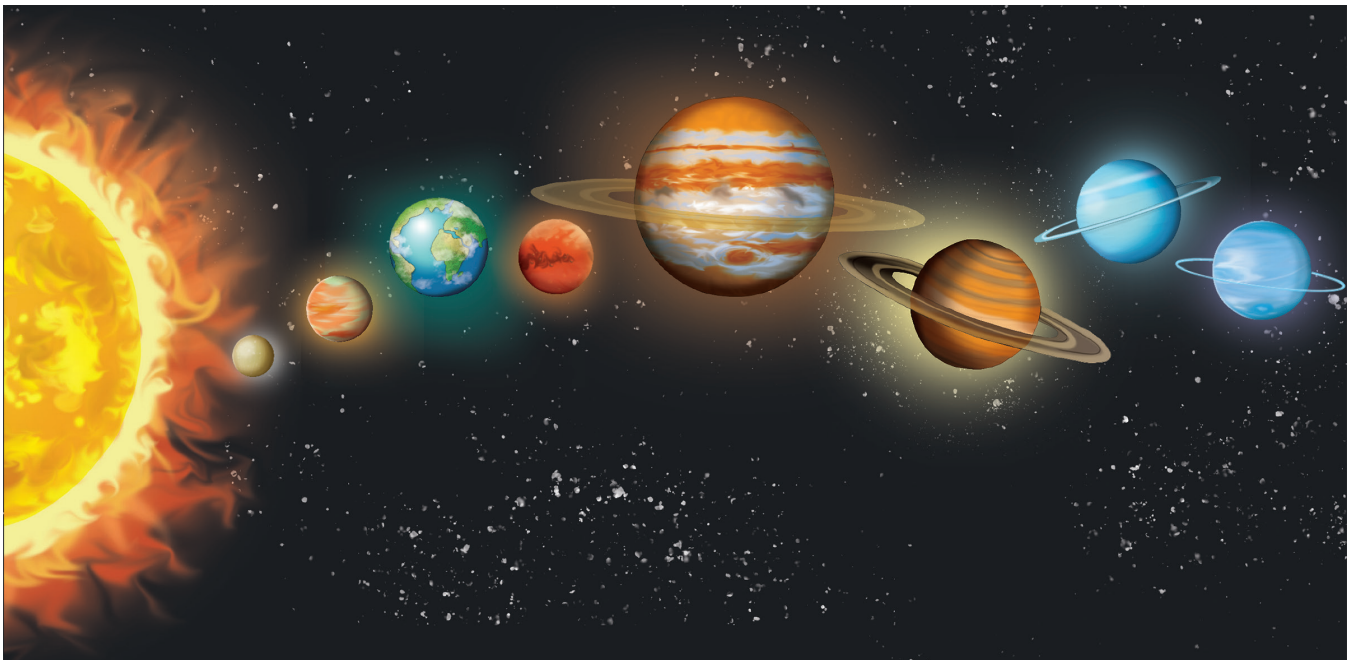
Astronauts are delivering 3 new sections to the space station totaling a weight of 94,728 pounds. Round this number to the nearest ten thousand.

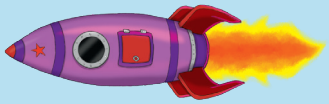
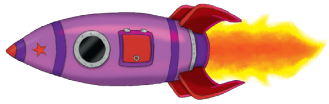
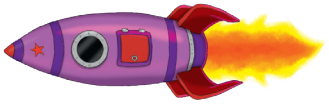
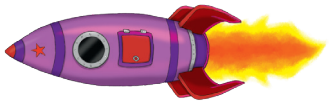
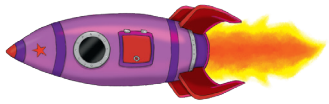
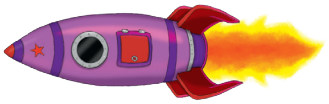
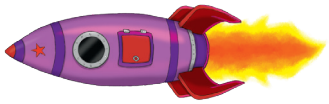
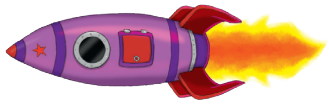
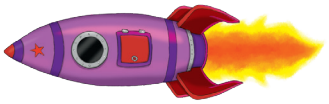
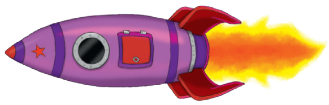
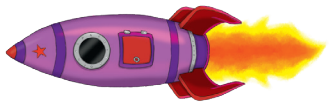
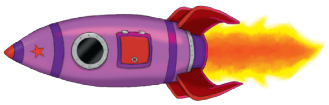
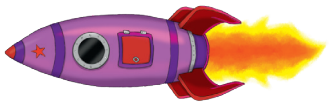
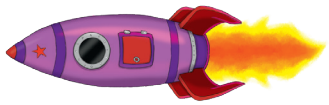
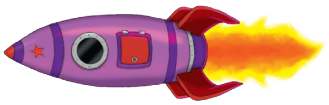
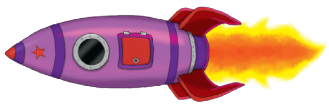
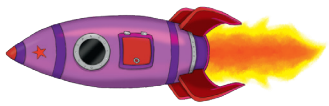
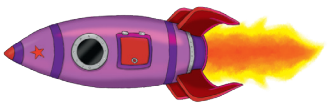
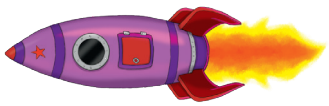
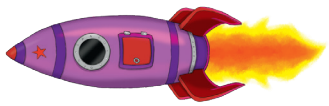
Rounded Number: _____

The distance from Earth to the Moon is 238,554 miles. Round this number to the nearest ten thousand.

Rounded Number: _____

Number	Place Value to round to:	Choose the number that is rounded correctly.		
462,739	ten thousand	460,000	470,000	500,000
528,194	hundred thousand	500,000	530,000	600,000
874,623	ten thousand	870,000	875,000	880,000
249,358	thousand	250,000	249,000	240,000
391,826	hundred thousand	300,000	390,000	400,000
527,894	ten thousand	500,000	520,000	530,000
413,870	ten thousand	400,000	410,000	414,000
794,308	hundred thousand	700,000	790,000	800,000



Start here:  What number rounds to 489,000?	 What number rounds **down** to 200,000?	 What number rounds to 645,000?
 What number rounds to 620,000?	 What number rounds to 320,000?	 What number rounds to 851,000?
 What number rounds to 250,000?	 What number rounds to 154,000?	 What number rounds to 990,000?
 What number rounds to 700,000?	 What number rounds to 530,000?	 What number rounds to 760,000?
 What number rounds to 113,000?	 What number rounds **down** to 900,000?	 What number rounds to 382,000?
 What number rounds to 430,000?	 What number rounds **down** to 870,000?	 What number rounds **up** to 870,000?
 What number rounds to 550,000?	 What number rounds to 338,000?	Last Flight!

 488,572

 850,868

 621,523

 153,763

 644,721

 252,614

 526,918

 759,482

 698,405

 904,825

 382,268

 112,636

 865,773

 321,268

 554,823

 338,184

 238,365

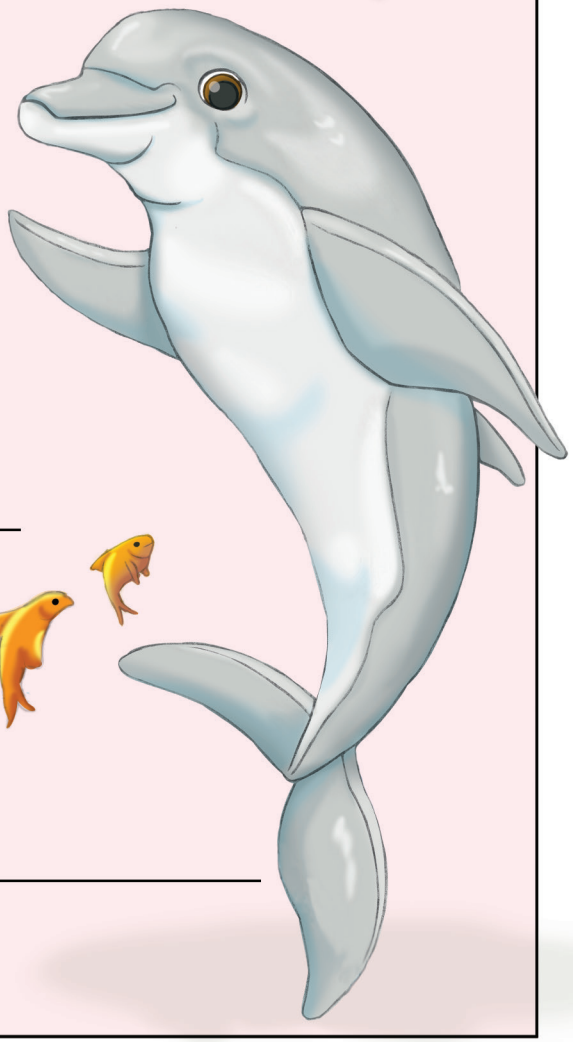
 872,843

 987,211

 427,689

Certificate of Achievement

All About® Math



awarded to

_____

for successfully completing Level 3

_____

Teacher's Signature Date

Before you begin, please refer to the instructions in the *All About Math* teacher's manual on page 9.

1. Count out loud as directed.

2. Write your answer and matching equation to each story problem below.

James has a collection of 17 stickers. Some of the stickers are small, and 9 of the stickers are big. How many of James' stickers are small?

_____ stickers Equation: _____

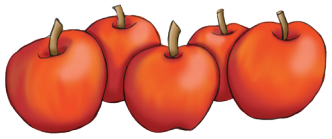
At Monday's basketball practice, Aaron made 7 free throws. At Wednesday's practice, he made 12 free throws. How many more free throws did Aaron make at practice on Wednesday than on Monday?

_____ free throws Equation: _____

3. Solve the story problem below by first breaking apart the numbers to make a ten. Then, add all the numbers together to find the total. Write your answer on the line.

At the grocery store, Finn bought 5 apples, 6 bananas, and 3 oranges. How many pieces of fruit did Finn buy?

_____ pieces of fruit



4. Find the sum.

65 + 29 = _____

```
  457
+ 283
-----
```

5. Find the difference.

96 - 48 = _____

```
  703
- 254
-----
```

6. Write the number or expanded form of the number.

500 + 80 + 6

Number:

_____

351,742

Expanded form:

_____ + _____ + _____ + _____ + _____ + _____

7. Tell the value of each digit in the numbers below.

253 745,302

8. Write a comparison symbol (> , <, or =) on the line to compare two numbers.

791 _____ 591 2,048 _____ 2,100

5,987 _____ 5,987

9. List the following numbers in order from least to greatest.

3,902 3,745 5,124

_____, _____, _____

List the following numbers in order from greatest to least.

7,455 7,031 7,458

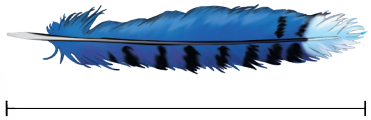
_____, _____, _____

10. Solve each of the following equations in your head and then write the answer.

134 + 50 = _____ 652 - 30 = _____

845 - 600 = _____

11. Estimate the length of the feather below. Then, use a ruler to find the exact measurement.



Estimate:

_____ cm.

Actual Measurement:

_____ cm.

12. Circle the unit that would be best to measure the length of the following items. Then, use the ruler to measure.

pencil table

_____ inches or feet _____ inches or feet

13. Write an equation to represent each story problem and solve for the missing value.

Kaden has a piece of yarn that is 65 centimeters long. He cuts a section to use for his project. The remaining piece of yarn is now 47 centimeters long. What is the length of the section of yarn Kaden cut to use for his project?

Equation: _____ _____ cm.

Tara walked 31 feet to the family room. Then, she walked to the kitchen. Later on, she walked 47 feet to the mailbox. If she walked a total of 92 feet, how far did she walk to the kitchen?

Equation: _____ _____ ft.

14. Write the time shown on each clock. Then, circle the correct phrase to complete the statement and tell the exact time.

quarter past
half past
quarter ‘til

5 o’clock

____ : ____

quarter past
half past
quarter ‘til

9 o’clock

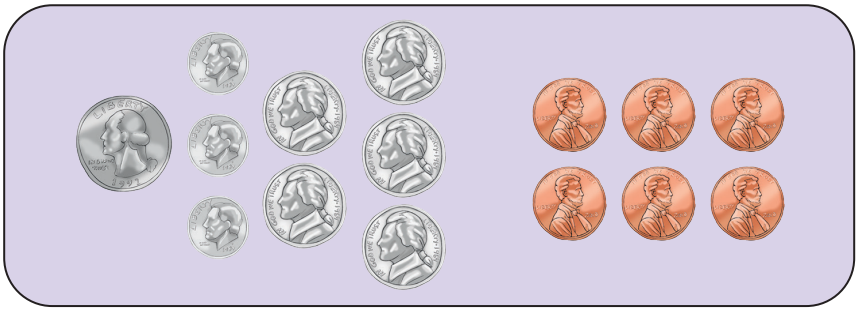
____ : ____

quarter past
half past
quarter ‘til

2 o’clock

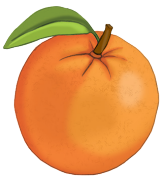
____ : ____

15. Identify each coin and its value.



____¢

16. Write your answer to the story problem below. Use each item's price shown below to help you solve each problem.

58 ¢  31 ¢  27 ¢ 

Max has 1 dollar to spend. Can he purchase all 3 fruits?

Circle: Yes No

If yes, how much money does Max have left? If no, how much money does Max need?_____ ¢

17. Complete each statement.

- 578 rounded to the nearest 10 is _____, but rounded to the nearest 100 is _____.

- Rounded to the nearest 10, the numbers 56, 59, and 63 all round to _____.