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Number & Operations - Fractions

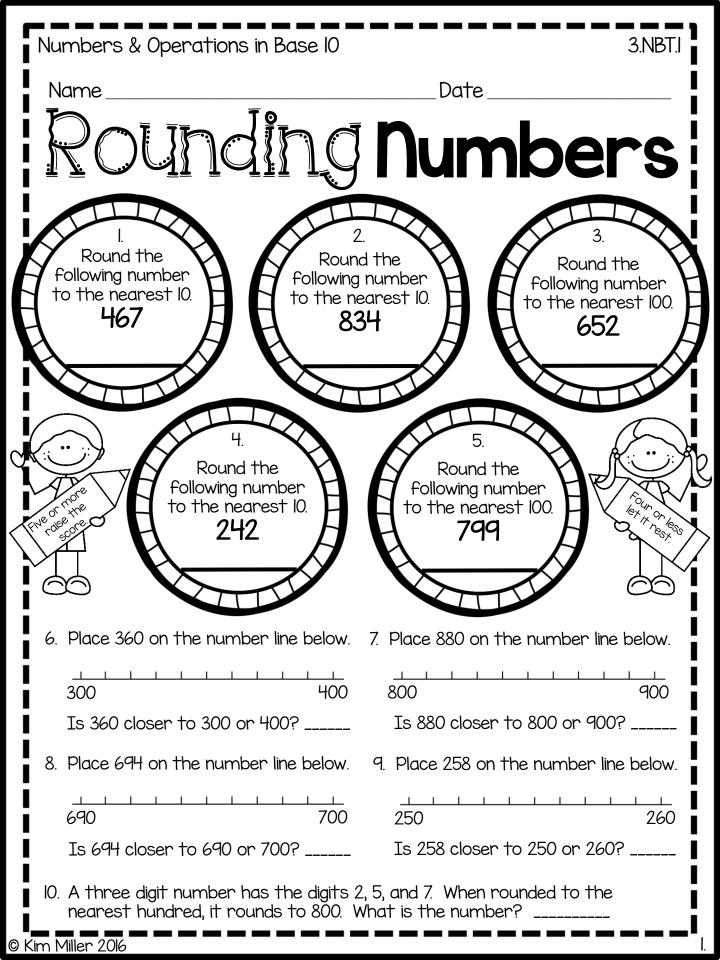
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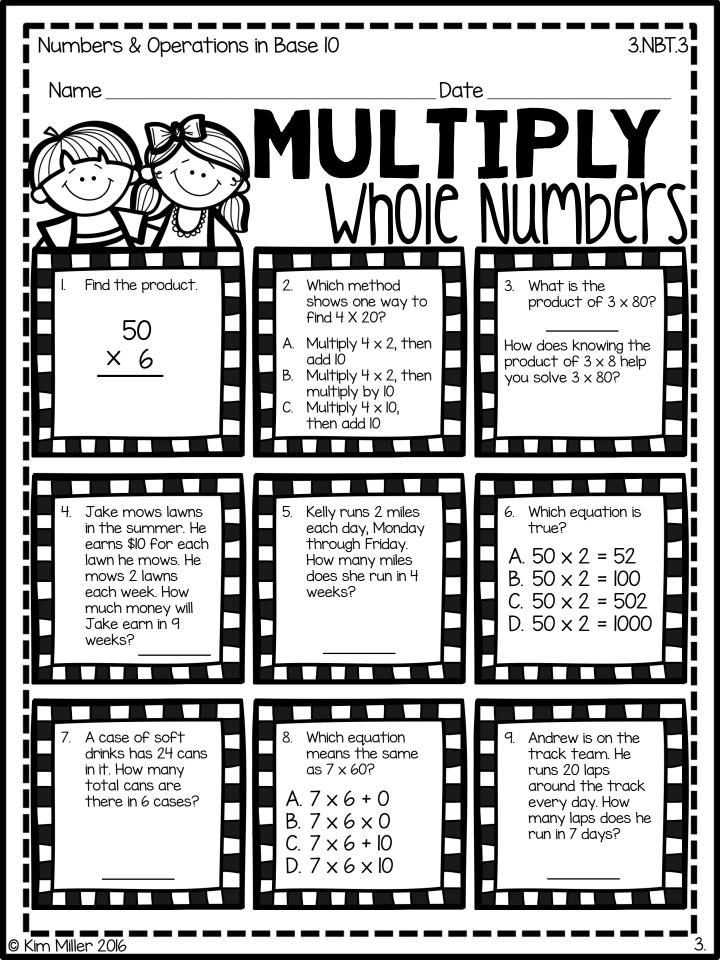
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Nur	Numbers & Operations in Base 10 3.NBT.:					
NameDate Add & Subtract Whole						
I. F	Find the sum.	"	2. Find the differ	ence.	3. Find the missing number.	
72 <u>+ 29</u>		62 <u>- 38</u>		57 <u>+</u> 82		
4.	Find the sum.		5. Find the differ	ence.	6. Find the missing number.	
	36 + 73		- 262 +		423 + 705	
7.	Jesse scored 486 poir on a video game. Apri scored 182 points. How many more points did Jesse score than Apr	l v	miles on Monday and 342 nickels, and 25 dime		nickels, and 25 dimes. How many coins does she	
10. The table below shows items purchased for a summer pool party.Which number sentence can be used to find how many more bottles of water than popsicles were purchased?						
	Item	Nur	umber Purchased		A. 36 - 12 =	
	Bottled Water		36	B. 36 + 12 =		
	Popsicles Pool Toxs		24 12	C. 36 - 24 =		
	Pool Toys		١૮	D. 36 + 24 =		

2.



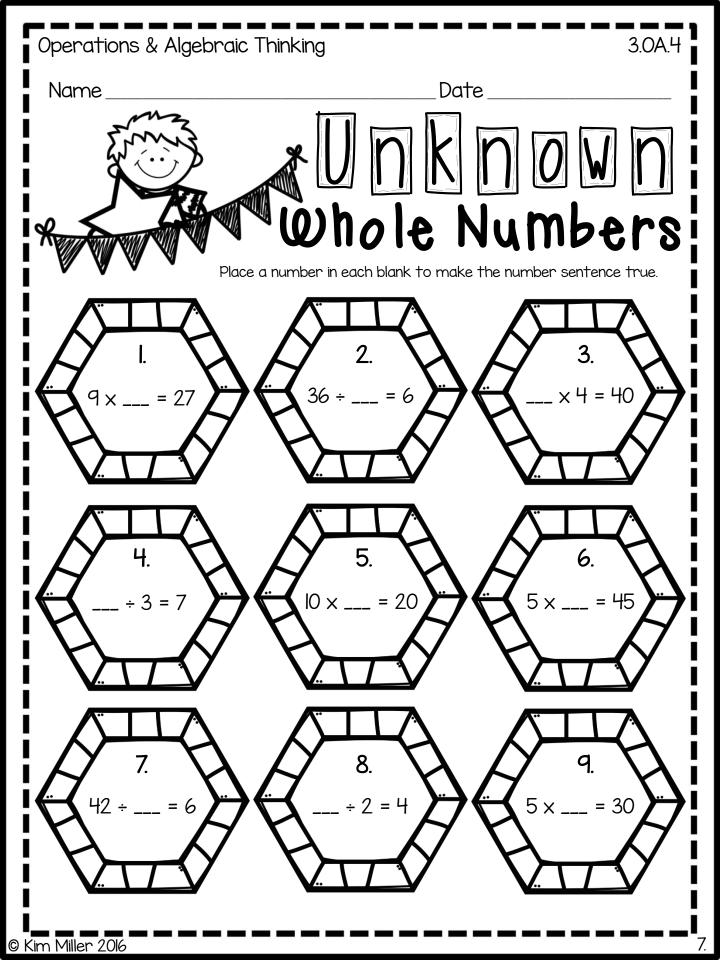
Operations & Algebraic	Thinking	3.0A.I
000	at al Gro Itiplicati	ups 2
 I. Becca collected 6 boxes of seashells. She put 7 seashells in each box. Which of these shows how may seashells Becca has collected? A. 6 x 7 B. 6 + 7 C. 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6 D. 7 x 7 x 7 x 7 x 7 x 7 	 2. Which equation below is represented in the picture? A. 20 × 4 B. I0 × 2 C. 5 × 5 × 5 × 5 D. 4 × 5 	3. Liz has 4 boxes of crayons. Each box contains 8 crayons. Write an expression Liz could use to show the total number of crayons she has all together?
4. Which expression is represented by this array?	5. Dan has 8 pages of baseball cards. There are 8 cards on each page. How many cards does Dan have in all? Write a number sentence to solve the problem.	 Allysa makes 3 bracelets. Each bracelet has 9 beads. She uses 3 x 9 to find the total number of beads. Her friend puts one more bead on each bracelet Allysa makes. What new multiplication fact can be used to find the total number of beads they used?
 7. Mrs. Smith baked 3 batches of cookies. Each batch had I2 cookies. Which expression shows how many cookies Mrs. Smith baked? A. I2 + 3 B. I2 - 3 C. I2 x 3 D. 3 + 3 + 3 Kim Miller 2016 	 8. Draw an array to match the word problem below. Holly has 3 boxes of popsicles. Each box has 5 popsicles in it. How many popsicles does Holly have all together? 	9. Which is another way to find the total number of ladybug legs? 6 + 6 + 6 + 6 A. $4+6$ B. 4×6 C. $6-4$ D. $4+4+4+4+4+4$

C

4.

Operations & Algebraic Thinking 3.0A.2			
Name EQU	Date of the second seco		
I. Which equation is shown by the picture? A. $8 \div 2 = 4$ B. $8 \div 4 = 2$ C. $4 \div 2 = 2$ D. $4 \div 4 = 1$	 Mr. Richards has \$15 to divide equally between his 3 children. Which equation could Mr. Richards use to find out how much money each of his children should receive? I5 + 3 = 18 I5 - 3 = 12 I5 ÷ 3 = 5 I5 × 3 = 45 	3. Amanda has a bag of 32 popsicles to give out at her pool party. There are 7 girls at her party. If she divides the popsicles between all the girls, including herself, how many popsicles will each girl get?	
4. Addison read 45 books over the summer. She sorts her books into 5 equal groups. How many books does she put in each group?	5. Dan buys 6 packs of gum with 5 pieces in each pack. He shares the gum evenly among himself and 5 friends. Write an equation to show many pieces of gum will each friend receive?	 6. Julie drew the picture below to match an equation. Which equation matches Julie's picture? A. 3 x 3 = 9 B. 9 ÷ 3 = 3 C. 9 - 3 = 6 D. 27 ÷ 3 = 9 	
7. Leah bought 54 strawberries. She put the same number of strawberries into 9 baskets. Write an equation to show how many strawberries she put in each basket. Kim Miller 2016	 8. Nick has collected 60 rocks. He puts an equal number of rocks into 5 boxes. How does Nick find the number of rocks in each box? A. He multiplies 5 times 60 B. He subtracts 5 from 60 C. He adds 60 to 5 D. He divides 60 by 5 	 9. Abby makes I2 cupcakes for 6 friends. She wants to know how many cupcakes each friend will get. Which expression will help Abby find the number of cupcakes each friend will get? A. I2 ÷ 6 = 2 B. I2 × 2 = 6 C. I8 ÷ 6 = 3 D. I2 × 6 = 72 	

Operations & Algebraic	Thinking	3.0A.3
Name	Dat Orci Prc Multiplicati	blems
I. Matt is preparing envelopes to be mailed. It takes him 2 minutes to prepare each envelope. How long would it take him to prepare 16 envelopes?	 Eight hotdogs come in a pack. Katie used the following number sentence to find the number of hotdogs in 7 packages. 8 + 8 + 8 + 8 + 8 + 8 + 8 = 	 Scott has 56 pieces of candy to share evenly among 8 friends. How many pieces of candy will each friend get?
A. 18 minutes B. 26 minutes C. 30 minutes D. 32 minutes	Finish the equation to show another way to find the number of hotdogs in 7 packs. X =	 A. 6 pieces of candy B. 7 pieces of candy C. 8 pieces of candy D. 9 pieces of candy
4. A ladybug has 6 legs. Which equation shows the number of legs on 5 ladybugs?	5. Michael bought 6 video games at the store for \$42. If the price for each video game was the same, how much did he pay for each video game?	6. Tara places 4 bowls on a table. She puts 4 scoops of ice cream in each bowl. How many scoops of ice cream does Tara place in the bowls all together?
A. 6 x 5 = 30 B. 5 x 5 = 25 C. 30 ÷ 6 = 5 D. 30 ÷ 5 = 6	A. \$6 B. \$7 C. \$8 D. \$9	A. 4 scoopsB. 8 scoopsC. 12 scoopsD. 16 scoops
 7. There are 36 children at a summer library program. The librarian forms 4 equal groups. Which number sentence can be used to find the number of children in each group? A. 36 + 4 = B. 36 - 4 = C. 36 ÷ 4 = D. 36 × 4 = 	 8. Twelve people want to see a movie. If each car can hold 4 people, which equation shows how many cars are needed to take all I2 people to the movie? A. I2 ÷ 4 = 3 B. I2 + 4 = I6 C. I2 - 4 = 8 D. I2 × 4 = 48 	 9. Jan bought 3 cans of frozen lemonade. She can make 8 cups of lemonade with each can. How many cups of lemonade can Jan make in all? A. 11 cups B. 21 cups C. 24 cups D. 27 cups
Kim Miller 2016		



Operations & Algebraic Thinking

Date Name OPCKtic: operations

Communitive	Associative	Distributive	Zero	Identity
We can swap numbers and change the order, but the product stays the same.	It doesn't matter how we group the numbers. The product stays the same.	You can multiply a sum by multiplying each addend separately and then add the products.	When we multiply any number by zero the product is always zero.	Any time you multiply a number by one, the product is the original number.
2 X 3 = 3 X 2	2 X (3 X H) = (2 X 3) X H	2 X (3 + 4) = 2 X 3 + 2 X 4	6 X 0 = 0 (0R) 0 X 6 = 0	9X1=9(OR)1X9=9

- Which expression is equivalent to 3 x (6 + 9)?
 - A. (3+6) + (3+9)B. $(3 \times 6) + (3 + 9)$
 - C. $(3+6) + (3 \times 9)$
 - D. $(3 \times 6) + (3 \times 9)$
- Which number sentence is true? A. $4 \times (5 \times 2) = (4 \times 5) \times 2$ B. $4 \times (5 \times 2) = 4 \times 5 + 2$ C. $4 \times (5 \times 2) = (4 + 5) \times 2$
 - $D_{1} + x5 = 4 \times 2$
- 5. Which number will make the number sentence true?

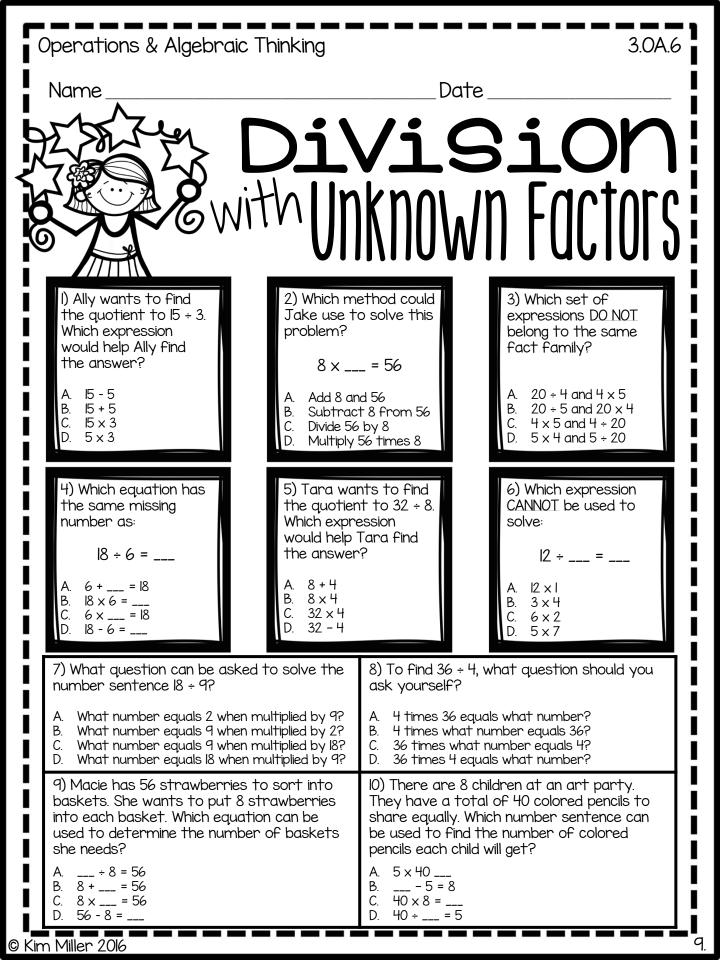
 $4 \times (2 \times 6) = (4 \times ___) \times 6$

- 7. The example $5 \times 0 = 0$, is an example of which property?
 - A. Distributive Property
 - B. Identity Property
 - C. Associative Property
 - D. Zero Property

- 2. Given the equation $2 \times 8 \times 5 = 80$, which expression also equals 80? $A_2 + 8 + 5$ B 8x5 $C. 5 \times 2 \times 8$
 - $D_8 \times 5 \times 3$
- 4. Which number sentence is not equal? A. $8 \div 2 = 2 \div 8$ B. $8 \times 2 = 2 \times 8$
 - C. $8 \times (2 \times 4) = (8 \times 2) \times 4$
 - D. $8 \times (2 + 4) = 8 \times 2 + 8 \times 4$
- 6. Which number will make the number sentence true?

6 x 7 = ____ x 6

- 8. The example | x 9 = 9, is an example of which property?
 - A. Zero Property
 - B. Associative Property
 - C. Identity Property
 - D. Distributive Property



Operations & Alge	braic Thinking		3.0A.7
Name		Date VV& VIO	e
I. 9×2 =	2. 7 × 3 =	3. 5 x 4 =	4. 8 × 7 =
5. 3 × 0 =	6. 9×5 =	7. 6×6=	8. 4 × 3 =
9. 42 ÷ 6 =	10. 24 ÷ 4 =	∥. 8l÷9=	2. 32 ÷ 8 =
3. 20 ÷ 2 =	14. 36 ÷ 9 =	l5. 72 ÷ 8 =	16. 21 ÷ 3 =
17. Write a related fact for 4 x 4 = 16.	18. Write a related fact for 5 x 3 = 15.	19. Write a related fact for 27 ÷ 9 = 3.	20.Write a related fact for 40 ÷ 8 = 5 × =
21. Mr. Nix has 8 grandchildren. He wants to give each grandchild 3 books. How many total books does he need? Write an expression and solve.	22. Laci has 8 cookies. She and 3 Friends share them equally. How many cookies did they each get? Write an expression and solve.	23. Erin's dance teacher wants to put 48 dancers into 6 groups. How many students will be in each group? Write an expression and solve.	24. Randy had guitar lessons 7 times each month for 9 months. What was the total number of guitar lessons Randy had in 9 months? Write an expression and solve.
	acts (fact family) fo = 26.	or the arrays. × = 27. × = ÷ = ÷ =	□□ X = □□ X = □□ ÷ = □□ ÷ =

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Operations & Al	gebraic Thinking	3.0A.8
Name	Da	te
V V V	PROBLEMS	
 I. Callie had I3 new She gave 2 pens each of her 6 ft How many pens she have left? A. I pen B. I I pens C. I2 pens D. 2I pens H. Mark got \$I0, \$2 and \$5 as birtho gifts. He wants buy a game that costs \$55. How more money do need? A. \$4 	 Pens. to nave 7 baseball cards. Ben has 5 fewer cards than Wes and Joey combined. How many baseball cards does Ben have? A. 2 baseball cards B. 5 baseball cards C. 9 baseball cards D. 10 baseball cards D. 10 baseball cards Times as many fish as Pete. Nic caught to t much es he A. 24 more fish 	 3. Kylie had a pack of 48 crayons. She lost 8 of the crayons at school and her sister broke 4 of them. How many crayons does Kylie have now? A. 60 crayons B. 52 crayons C. 36 crayons D. I2 crayons 6. Kat has 3 piles of rocks with 7 rocks in each pile. Her friend adds more rocks to the piles. Now, there are 32 rocks total. How many rocks did her friend bring? A. 11 rocks
A. \$4 B. \$5 C. \$6 D. \$8	A. 24 more Fish B. 15 more fish C. 8 more fish D. 7 more fish	A. 11 rocks B. 12 rocks C. 21 rocks D. 22 rocks
	8. Taylor spent 90 minutes at the beach. She ate lunch for 27 minutes and played a game for 32 minutes. She spent the rest of the time swimming. About how long did Taylor spend swimming? eggs A. 18 min. C. 49 min. Deggs B. 30 min. D. 59 min.	 9. Andrea wants to save 900 Box Tops. She saved 135 in one month. She saved 83 the next month. About how many more Box Tops does Andrea need to save? A. fewer than 300 B. between 300 and 600 C. between 600 and 800 D. more than 800

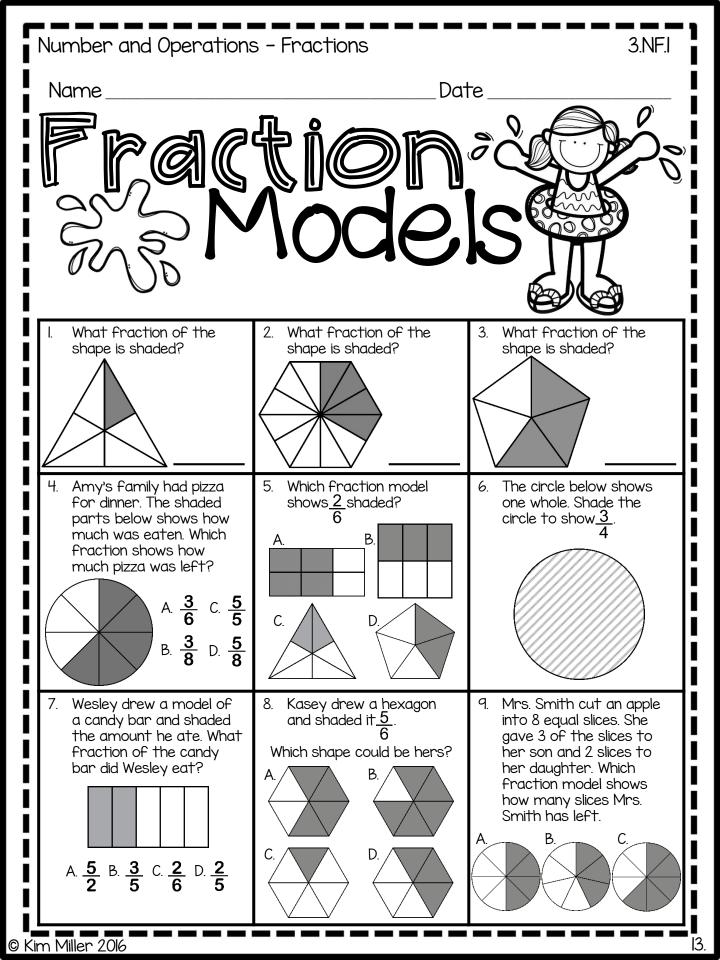
Operations & Algebraic	3.0A.9	
Name	Date Pate	
 If the pattern continued, what number would come next in the sequence? 3, 7, 11, 15, What rule does the pattern follow? 	 2. What are the missing two numbers in this pattern? I, 2, 4, 8,, What rule does the pattern follow? 	 3. If the pattern continued, what number would come next in the sequence? 9, 12, 15, 18, What rule does the pattern follow?
 4. The numbers on the triangle form a pattern from the top to the bottom. What rule is followed to make the pattern shown? A. subtract 50 B. add 50 C. subtract 25 50 D. add 25 75 100 	 5. Which shows the shirts arranged in a pattern counting by Five? A. 6 18 24 30 B. 15 20 25 30 C. 15 20 25 35 D. 20 25 30 40 	6. Which statement is true about this y and z chart? yz93847566B. $y \div 3 = z$ 57D. $y - z = 6$
 7. Which is true when any number is multiplied by 2? A. The answer will be even. B. The answer will be odd. C. The answer will end in 2. D. The answer will be a two-digit number. 	 8. Tori said that anytime an odd number is multiplied by any other number, the answer will always be an odd number. Which multiplication fact proves Tori is incorrect? A. 3 x 7 C. 7 x 5 B. 5 x 6 D. 9 x 3 	 9. Larry found a pattern when he multiplied numbers by 8. Which pattern could Larry have found? A. all products are odd numbers B. all products end in 8 C. all products are even numbers D. all products end in 0

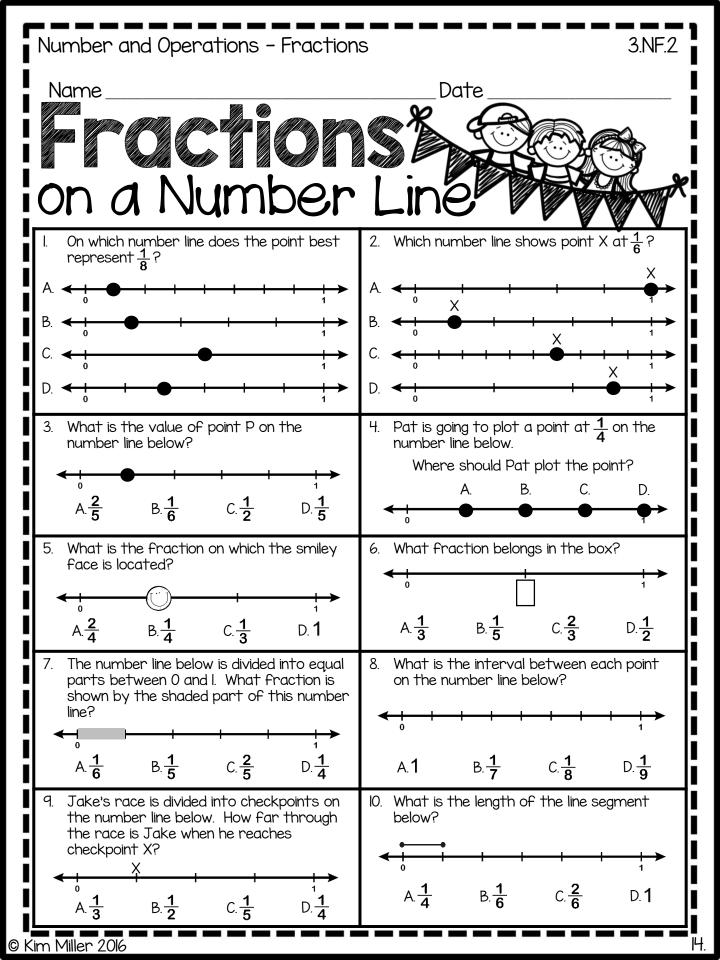
10. Mrs. Brown's class is studying patterns. Four of her students made the statements below.

- Ricky said, "Adding two even numbers equals an even sum."
 Tara said, "Adding two even numbers equals an odd sum."
- Alex said, "Adding two odd numbers equals an odd sum." •
- Lani said, "Adding two odd numbers equals an even sum." •

Which student is correct?

- A. Ricky is correct.
- B. Tara is correct.
- C. Alex is correct.
- D. Ricky & Lani are correct.





Number and Operations – Fractions						
Name Equivalent	Fractions					
I. Which shape is at the fraction $\frac{4}{4}$ on the number line? A B C D \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow	2. Which fraction on the number line is equal to one whole? $4 - \frac{1}{5} + \frac{2}{5} + \frac{3}{5} + \frac{4}{5} + \frac{5}{5} + \frac{1}{5} +$					
 3. Model I and Model 2 are each divided into equal parts with 3 parts shaded on each model. Which statement correctly compares the two models? Model I Model I Model 2 Model 2 Model 1 Model 2 Model 2 Model 2 Model 1 Model 1 Model 1 Model 2 Model 2 Model 1 Model 1 Model 1 Model 1 Secure the numerators are the same. Model 1 is greater than model 2 because the numerators are the same. Model 1 is greater than model 2 because 3 parts out of 6 is less than 3 parts out of 8. Model 1 is greater than 3 parts out of 8. Model 1 is greater than 3 parts out of 8. A recipe for trail mix requires the following ingredients. Cup of peanuts 2/4 cup of sunflower seeds 2/4 cup of almonds 	 4. Which model correctly compares the two fractions below. 4/8058 A A B C D D D D D C C D D					
Which two items did the recipe require the same amount of? 7. Which list includes equivalent fractions?	A. $\frac{2}{5}$ C. $\frac{1}{2}$ B. $\frac{6}{10}$ D. $\frac{4}{4}$ 8. Which of the following is equivalent to $\frac{5}{5}$?					
A. $\frac{1}{2}$ $\frac{3}{4}$ $\frac{5}{6}$ C. $\frac{1}{2}$ $\frac{2}{4}$ $\frac{3}{6}$ B. $\frac{1}{2}$ $\frac{2}{4}$ $\frac{4}{6}$ D. $\frac{2}{4}$ $\frac{3}{4}$ $\frac{4}{4}$ 9. Janie ate the shaded portion of the pie. Write a sub-standard portion of the pie. Write the standard po						
two equivalent fractions that represent the portion of the pie that Janie ate.						

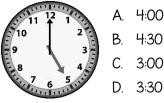
Measurement and Data

Name

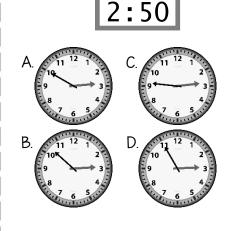
 Telling
 Mrs. Smith started cooking 45 minutes shown on the clock. What

 4.
 Mrs. Smith started cooking 45 minutes before the time shown

- time did Julia go to the pool? A. I:20 B. I:40 C. 2:20 D. 2:40
- 2. Lily's birthday party last one hour and thirty minutes. The clock shows what time her birthday party ended. What time did Lily's birthday part start?

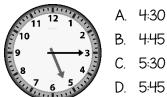


3. Which clock best represents the time shown on the digital clock?

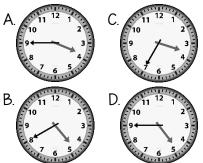


4. Mrs. Smith started cooking 45 minutes before the time shown on the clock. What time was it when Mrs. Smith started to cook?

Date



5. The time now is 3:20. Jake has to leave for baseball practice in 15 minutes. Which clock shows the time Jake will leave for baseball practice?



6. Molly leaves for her grandparents house at the time shown on the clock. She gets back home 3 hours and 30 minutes later. What time did Molly get home?



A. 6:15 B. 6:45 C. 6:00 D. 5:30



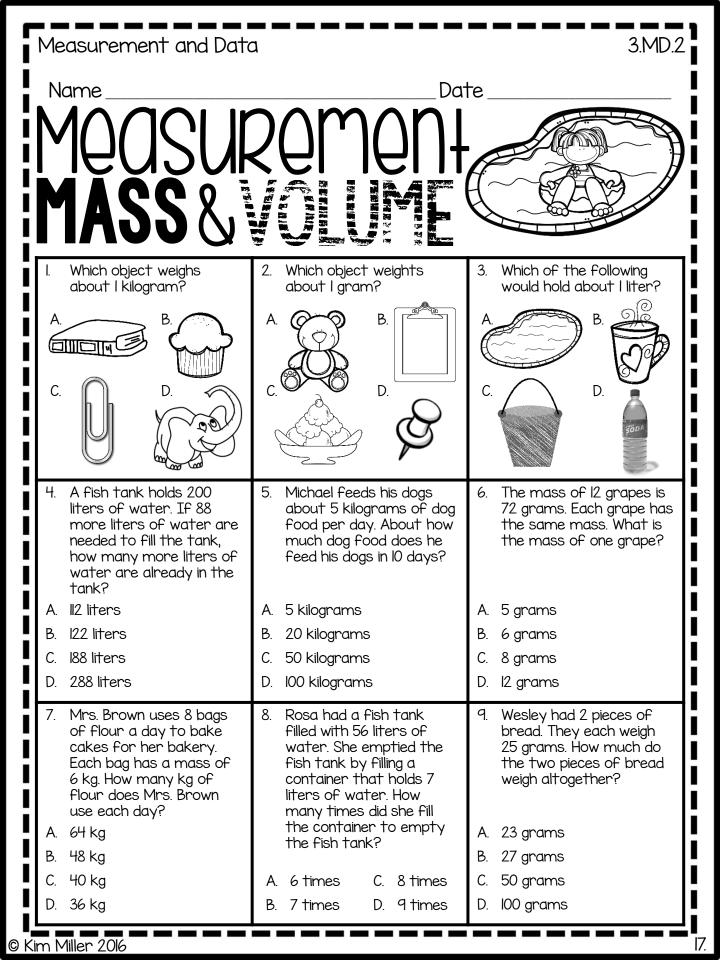
3.MD

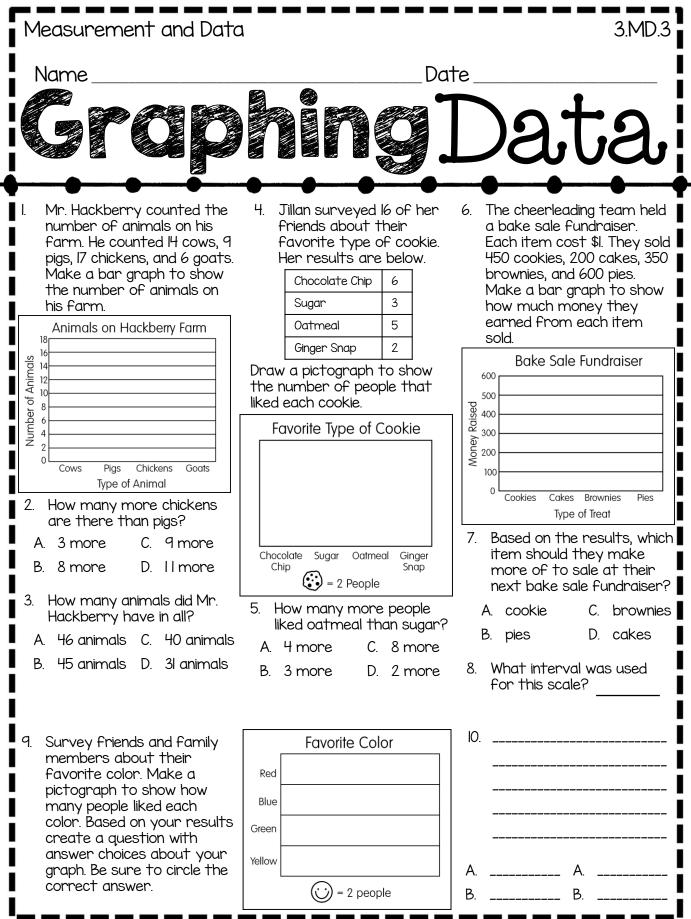
- 7. Kyle leaves his house at 2:30 to go to walk his dog. Taylor leaves her house 20 minutes earlier to walk her dog. What time did Taylor start walking her dog?
 - A. I:20
 - B. 1:40
 - C. 2:10
 - D. 2:40
- Kasey gets up at 6:15

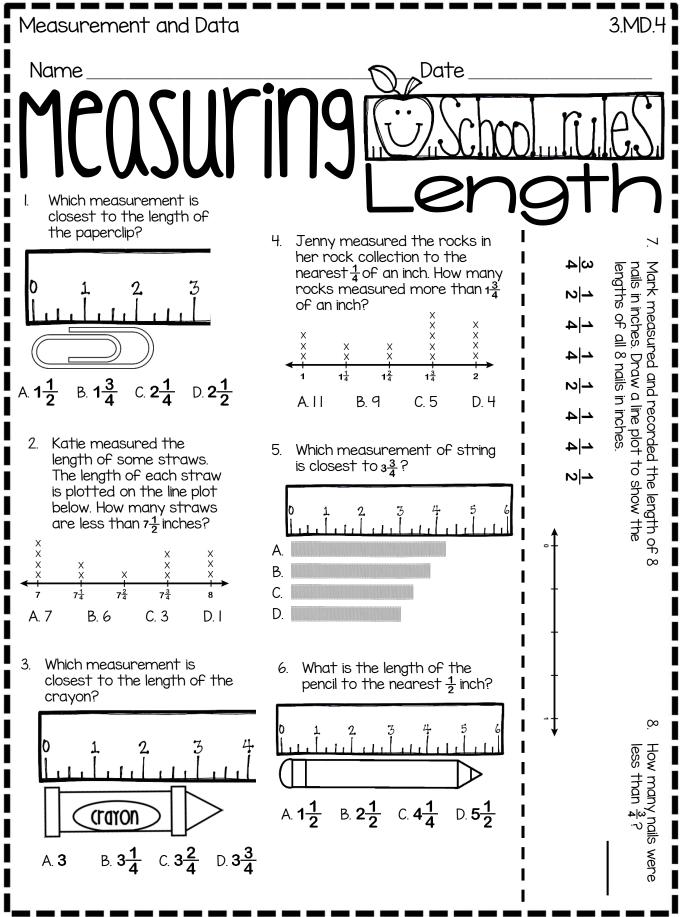
 a.m. She eats
 breakfast at 7:20
 a.m. How long is it
 after Kasey gets up
 before she eats
 breakfast?
 - A. 55 minutes
 - B. 60 minutes
 - C. 65 minutes
 - D. 70 minutes
- 9. It took 18 minutes for Scott to walk to Mark's house. If he left at 7:48, what time did Scott get to Mark's house?

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Measurement and Data

Name

Date_

Shapes

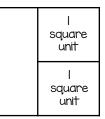


The side lengths of a square are I foot long. Which measure represents the area of the square?



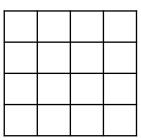
I Ft.

- A. I square foot
- B. Ifoot
- C. 4 square feet
- D. 4 feet
- 2. Figure X is divided into 3 parts. Which statement about Figure X is correct?



- A. Figure X has an area of 2 square units, because there are 2 squares.
- B. Figure X has an area of 3 square units, because it is divided into 3 parts
- C. Figure X has an area of 4 square units, because, a total 4 square would cover the figure.

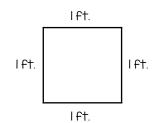
3. What is the area of each square unit in the figure below?



- A. 16 square units
- B. 12 square units
- C. 4 square units
- D. I square unit
- 4. Which statement is NOT true?
 - A. Two square units have an area of 2 square units.
 - B. A unit square has an area of I square unit
 - C. A unit square has a side length of I square unit.
 - D. Area can be measured using square units.
- 5. Which of the following could be represented by 80 square feet?
 - A. the area of a rug
 - B. the length of a house
 - C. the volume of a block
 - D. the perimeter of a living room

6. What is the area, in square units, of the shaded figure?

- A. 9 square units
- B. 8 square units
- C. 12 square units
- D. I square unit
- 7. The figure shows the length and width of the tile. Which statement about the tile is true?



- A. The tile has an area of 4 square feet, because 1 x 4 = 4.
- B. The tile has an area of 2 square feet, because | x | = 2
- C. The tile has a unit of I square foot, because | x | = |.
- D. Area cannot be determined.

