4.RA.A.2

Grade 4

Use the four operations with whole numbers to solve problems

Prioritized Standard: I can solve multi-step word problems using addition, subtraction, multiplication, or division.
Score 4.0: **I can:** ❏ Solve and justify multi-step problems involving variables, whole numbers, fractions and decimals.
Score 3.0: **I can:** ❏ Identify an equation using a variable that represents a given problem. ❏ Solve a whole number multi-step word problem involving any of the four operations. ❏ Solve a multi-step, whole number equation. ❏ Use estimation to interpret the reasonableness of an answer. ❏ Identify a strategy that may be used to determine the reasonableness of a solution.
Score 2.0: **I can** perform basic processes, such as**:** ❏ Identify the steps to solve a multi-step word problem ❏ Identify the repeated addition and subtraction expression which correctly represents the product and quotient of a given multiplication or division fact. ❏ Interpret quotients and products of whole numbers. ❏ Explain the quotient as a number of groups in a given division problem.
Score 1.0 With help, **I can** perform 2.0 and 3.0 expectations.

4.RA.A.2 - I can solve multi-step word problems using addition, subtraction, multiplication, or division.

Proficiency Monitoring

Proficiency Ceiling	PC 3	PC 3	PC 3	PC 3	PC 3	Notes
Student Name	Unit 4 Test #9b & 9c	Unit 5 Checkpt A #3	Unit 5 Test #1a &1b	Unit 5 Test #6a	Unit 6 Checkpt D #2a & 2b	

Unit 4 Test, #9b & 9c (Proficiency Level 3)

9. A school district in Los Angeles reported 633,621 students in 2016.
   A school district in New York City reported 984,462 students in the same year.

   b. How many more students attend that district? Explain or show your reasoning.

   c. How many more students does the district in New York City need to have 1,000,000 students? Explain or show your reasoning.

Unit 5 Checkpoint A, #3 (Proficiency Level 3)

3. Jada has 23 pennies in her piggy bank. Elena has 4 times as many pennies as Jada in her piggy bank. How many pennies do Jada and Elena have altogether in their piggy banks? Explain or show your reasoning.

Unit 5 Test, #1a & 1b (Proficiency Level 3)

1. There are 93 students in the cafeteria. There are 3 times as many students in the cafeteria as there are students on the playground.

   a. Write a multiplication equation that represent the situation.

   b. How many students are on the playground or in the cafeteria? Explain or show your reasoning.

Unit 5 Test, #6a (Proficiency Level 3)

Standard Units	Metric Units
Conversions – Length	
1 yard (yd) = 3 feet (ft) = 36 inches (in)	1 centimeter (cm) = 10 millimeters (mm)
1 mile (mi) = 1,760 yards (yd) = 5,280 feet (ft)	1 meter (m) = 100 centimeters (cm)
	1 kilometer (km) = 1,000 meters (m)

6. A lake is 2,500 meters wide. Noah says that's 25 centimeters.

   a. Explain why Noah's answer is not reasonable.

Unit 6, Checkpoint D, #2a & 2b (Proficiency Level 3)

2. Tyler scored 126 points in 9 basketball games.

   a. If Tyler scored the same number of points each game, how many points did he score in each game? Explain or show your reasoning.

   b. Diego scored 5 more points than Tyler did in each game.
   How many points did Diego score in the 9 games? Explain or show your reasoning.

Proficiency Level 4 Question:

Han has 5 ½ times the number of cookies that Jada has. Jada has 2 cookies.
How many cookies are there altogether?

Answer Key

Unit 4 Test, #9b & 9c (Proficiency Level 3)

9. A school district in Los Angeles reported 633,621 students in 2016.
   A school district in New York City reported 984,462 students in the same year.

   b. How many more students attend that district? Explain or show your reasoning.

   350,841

   c. How many more students does the district in New York City need to have 1,000,000 students? Explain or show your reasoning.

   15,538

Unit 5 Checkpoint A, #3 (Proficiency Level 3)

3. Jada has 23 pennies in her piggy bank. Elena has 4 times as many pennies as Jada in her piggy bank. How many pennies do Jada and Elena have altogether in their piggy banks? Explain or show your reasoning.

115 pennies. **Sample Reasoning:** Elena has 4 x 23 or 92 pennies in her piggy bank. Then 23 + 92 = 115.

Unit 5 Test, #1a & 1b (Proficiency Level 3)

1. There are 93 students in the cafeteria. There are 3 times as many students in the cafeteria as there are students on the playground.

a. 93 = 3 x ?, ? x 3 = 93, or equivalent
b. 124

Unit 5 Test, #6a (Proficiency Level 3)

Standard Units	Metric Units
Conversions – Length	
1 yard (yd) = 3 feet (ft) = 36 inches (in)	1 centimeter (cm) = 10 millimeters (mm)
1 mile (mi) = 1,760 yards (yd) = 5,280 feet (ft)	1 meter (m) = 100 centimeters (cm)
	1 kilometer (km) = 1,000 meters (m)

6. A lake is 2,500 meters wide. Noah says that's 25 centimeters.

a. Explain why Noah's answer is not reasonable.

25 centimeters is about the length of a ruler while a lake is much larger.

Unit 6, Checkpoint D, #2a & 2b (Proficiency Level 3)

2. Tyler scored 126 points in 9 basketball games.

a. If Tyler scored the same number of points each game, how many points did he score in each game? Explain or show your reasoning.

b. Diego scored 5 more points than Tyler did in each game.
How many points did Diego score in the 9 games? Explain or show your reasoning.

a. 14 Points. **Sample Reasoning:** I know that 10 × 9 = 90 and 4 × 9 = 36 and 90 + 36 = 126. So I added 10 and 4.

b. 171 Total Points. **Sample Reasoning:** 126 + (9 x 5) = 126 + 45 = 171.

Proficiency Level 4 Question:

Han has 5 ½ times the number of cookies that Jada has. Jada has 2 cookies.
How many cookies are there altogether?

Han has 5 ½ x 2 = 11 cookies
Jada has 2 cookies

11 + 2 = 13 cookies