

Due Dates:

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Session	Last Monday of
1	September
2	October
3	November
4	January
5	February
6	March

Grade 2

Session 3 - Answers

(50 points total; 10 points deducted if late)

5 points for each correct answer, unless specified otherwise; 1 point if answer incorrect, but work shown:

- 1. Megan is two years younger than Amanda. The sum of their ages is 14. How old is Megan? {5 points if give correct answer of 6, 2 points if answer is 8 otherwise 1 point for trying}
 Megan (M) is 6 years old. Amanda (A) = M + 2 = 8 and A + M = 8 + 6 = 14
- 2. Find the mystery number {?} using the relationships below:
 - a. 28:7
- 20:5
- 16:4
- 12:?

{5 points if give correct answer, 2 points if give ?=4 otherwise 1 point for trying}

- 3. A fence has 6 poles from one end to another. The poles are 10 feet apart. How long is the fence? {5 points if give correct answer, 2 points if give 60 feet otherwise 1 point for trying}
 Let pole = P. Thus the fence looks like P-P-P-P-P with = 10 feet thus in total, the fence is 5 times or 5 times 10 = 50 feet
- 4. Mental Math Challenge: {1 point for each correct, 5 points if all correct} solution:
 - a) 100-99 = 1000-____
- a) 100-99 = 1000- <u>999</u>
- b) 999-99 = 100 + ____
- b) 999-99 = 100 + _800_

c) $1999-1000 = 99 + \underline{900}$

d) 900+99 = 1000 - <u>1</u>

5. Sebastian read 27 books. The books were chapter books or picture books. He read twice as many chapter books as picture books. How many of each type did he read?

{5 points if give correct answer, 4 points if give Picture = 18 books and Chapter = 9 books, 2 points if give only one of both correctly, otherwise 1 point for trying}
Chapter = 18 books, Picture = 9 books

6. What is the perimeter of a rectangle that has one side as 4 feet, and another side as 5 feet?

{5 points if give correct answer, 2 points if give 9 feet otherwise 1 point for trying}

$$2 \times 4 + 2 \times 5 = 18$$
 feet

7. How many right angles are in the word "HALL"?

{5 points if give correct answer, 4 points if answer is 5, 3 points if answer is 4, 2 points if answer is 3, otherwise 1 point for trying}

H has 4 right angles, both L have one each for a total of 6 right angles

8. Jia and Ruby are painting a fence. Jia paints 2/8 of the fence, Ruby paints 3/8. Together, did they paint more than half the fence? Show your work. {5 points if give correct answer, 2 points if answer is half, otherwise 1 point for trying}

Jia + Ruby = 2/8 + 3/8 = 5/8 of the fence. Since half of the fence is the same as 4/8 of the fence and 5/8 is greater than 4/8 then yes, they painted more than half of the fence.

9. Jamal has a bag of coins: 2 red, 3 yellow and 1 green. What is the probability that Jamal will pick a red coin if he takes one without looking? {5 points if give correct answer 2/6 or 1/3, 2 points if answer is either 3/6 (or ½) or 1/6, otherwise 1 point for trying}

 $Prob(pick\ one\ red\ coin) = \frac{number\ of\ red\ coins}{number\ of\ total\ coins} = \frac{2}{2+3+1} = \frac{2}{6} = \frac{1}{3}$

10. A baby whale can have 300 ml of milk each day. In how many days will the baby whale have 1.5 L of milk? Note: 1000 ml = 1L

{5 points if give correct answer, 4 points if answer is 4 days, 3 points if answer is 3 days, 2 points if answer is 2 days, otherwise 1 point for trying}

1.5 L = 1500 ml. Since have 300ml in one day, the number of

days to have 1500 ml =
$$\frac{1500 \text{ ml}}{300 \frac{\text{ml}}{\text{day}}} = 5 \text{ days}$$