

(Suggested points)

NAME: Key

**GRADE 3: PRE TEST Unit 4**

- 1) The gym teacher separated the class into 4 teams. There are 6 students on each team.  
How many students are there altogether? 3.OA.1/ 3.OA.3

2pt

Number model:

$4 \times 6 = 24$

Number Of Teams	Students Per Team	Total Number Of Students
4	6	?

Answer: 24 students  
(unit)

- 2) Draw an array to represent the story problem above. 3.OA.3

1pt

x x x x x x  
x x x x x x  
x x x x x x  
x x x x x x

- 3) Write a multiplication equation for the picture below. 3.OA.1

1pt



Number Model:  $3 \times 4 = 12$

3.OA.1

- 4) Write a word problem in which a total number of objects can be expressed as  $3 \times 6$ .

2pt

(word problems will vary)

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- 5) Draw an array and write a solution to your story problem in question 4.

3.OA.1

1pt Array:

Answer: 18 (units)

Carrie had 20 stickers to share equally among her 4 friends. How many stickers does each friend get? Which number sentence (equation) models this problem?

3.OA.2/ 3.OA.3

6)  $20 \times 4 = 80$

Yes

No

7)  $4 \div 20 = 5$

Yes

No

8)  $20 \div 4 = 5$

Yes

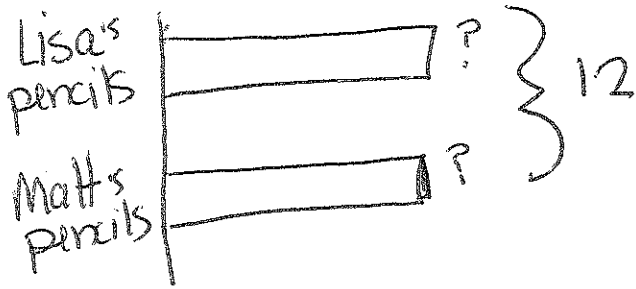
No

1pt

- 9) Lisa and Matt shared 12 pencils equally. How many pencils does each child get? 3.OA.2

1 pt

Draw a model to show your work.



$$12 \div 2 = 6$$

Answer: 6 pencils  
(units)

- 10) Write a word problem the represent the equation  $30 \div 5 = \underline{\hspace{2cm}}$ . 3.OA.2

2 pt

(Story problems will vary)

In which equation(s) is the missing number 3? 3.OA.4

11)  $2 \times \underline{\hspace{1cm}} = 8$

Yes

No

12)  $27 \div \underline{\hspace{1cm}} = 9$

Yes

No

13)  $15 = \underline{\hspace{1cm}} \times 5$

Yes

No

- 14) Write two factors that have a product of 24. (Both numbers must be greater than one). 3.OA.4

1 pt

2 and 12 (Ans. vary)  
3 8  
4 6

15)

$7 \times \underline{\quad} = 70$

3.OA.4

1pt

What's the missing factor? Explain your reasoning.

Ten is the missing factor because  $7 \times 10 = 70$ .

Find the product.

3.OA.7

16)  $2 \times 6 = \underline{12}$

17)  $4 \times 4 = \underline{16}$

18)  $5 \times 7 = \underline{35}$

19)  $6 \times 10 = \underline{60}$

20)  $4 \times 8 = \underline{32}$

Is 3 the unknown number in the equation(s) below?

3.OA.6

21)  $18 \div \underline{\quad} = 6$

Yes

No

22)  $5 = 12 \div \underline{\quad}$

Yes

No

23)  $21 \div \underline{\quad} = 8$

Yes

No

24) Use the numbers 2, 7, and 14 to write the number models for the multiplication/division fact family.

3.OA.6

$2 \times 7 = 14$

$14 \div 2 = 7$

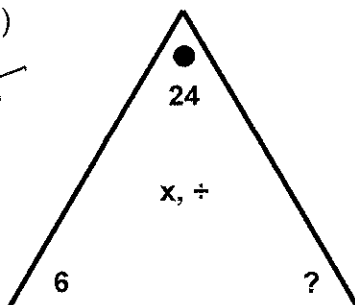
$7 \times 2 = 14$

$14 \div 7 = 2$

25)

3.OA.6

1pt



What is the missing number? Explain how you found it.

Four is the missing number because this is a fact triangle and  $24 \div 6 = 4$ .