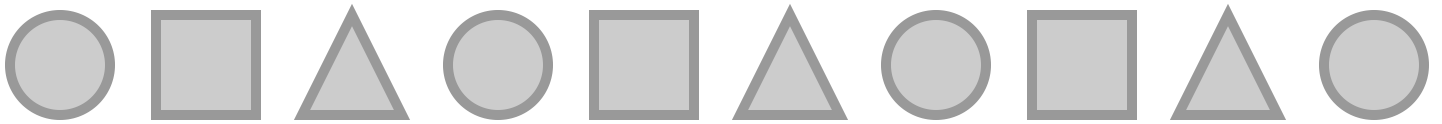


TANG MATH

Grade 6 Readiness Answer Key



Intervention Module
Assessment 2

Grade 6 Readiness

Teacher Directions: Place a mark next to each incorrect question. Assign the lessons listed to the right of the checkbox.

#	Source	Backfill Lessons
1.	<input type="checkbox"/> 5-24: Model Numbers in Expanded Form with...	2-76, 2-77, 4-24, 4-73, 5-24
2.	<input type="checkbox"/> 5-70: Compare Digits that are the Same	3-26, 4-29, 4-30, 4-31, 5-70
3.	<input type="checkbox"/> 5-96: Rounding Decimal Numbers to the Nea...	5-92, 5-94, 5-95, 5-96
4.	<input type="checkbox"/> 5-16: Multiply using the Standard Algorithm: ...	3-46, 3-106, 4-34, 4-35, 4-36, 4-37, 4-80, 4-81, 5-16
5.	<input type="checkbox"/> 5-17: Multiply using the Standard Algorithm: ...	4-40, 4-41, 4-42, 5-17
6.	<input type="checkbox"/> 5-27: Divide by 2-Digit Divisors using the Par...	3-112, 4-46, 4-47, 4-48, 4-49, 4-50, 5-25, 5-26, 5-27
7.	<input type="checkbox"/> 5-29: Order of Operations	3-60, 4-55, 5-29
8.	<input type="checkbox"/> 5-40: Add Fractions with Unlike Denominato...	3-75, 4-98, 4-99, 5-37, 5-38, 5-39, 5-40
9.	<input type="checkbox"/> 5-45: Subtract Fractions with Unlike Denomi...	4-100, 4-101, 5-44, 5-45
10.	<input type="checkbox"/> 5-56: Proper Fraction x Proper Fraction	4-83, 5-54, 5-55, 5-56
11.	<input type="checkbox"/> 5-72: Unit Fraction \div Whole Number using th...	5-67, 5-68, 5-72
12.	<input type="checkbox"/> 5-73: Whole Number \div Unit Fraction using th...	5-73
13.	<input type="checkbox"/> 5-41: Add Mixed Numbers with Unlike Denom...	4-102, 4-103, 5-41
14.	<input type="checkbox"/> 5-46: Subtract Mixed Numbers with Unlike D...	5-46
15.	<input type="checkbox"/> 5-63: Multiply Mixed Numbers using an Area ...	4-107, 5-61, 5-63
16.	<input type="checkbox"/> 5-99: Add Decimal Numbers using Partial Su...	4-113, 4-114, 5-42, 5-43, 5-99
17.	<input type="checkbox"/> 5-101: Subtract Decimal Numbers using Parti...	5-100, 5-101
18.	<input type="checkbox"/> 5-106: Multiply Decimal Numbers using the P...	5-104, 5-105, 5-106
19.	<input type="checkbox"/> 5-112: Divide Decimal Numbers by Decimals ...	5-111, 5-112
20.	<input type="checkbox"/> 5-32: Sequential 2-Step Comparison Word P...	4-20, 4-21, 4-22, 4-23, 5-32
21.	<input type="checkbox"/> 5-50: Subtract Fractions with Unlike Denomi...	2-39, 2-43, 4-104, 5-49, 5-50
22.	<input type="checkbox"/> 5-65: Comparison Word Problems using Frac...	4-16, 4-17, 4-18, 4-19, 5-19, 5-65
23.	<input type="checkbox"/> 5-85: Scale Whole Numbers on a Double-Sid...	5-84, 5-85
24.	<input type="checkbox"/> 5-123: Smaller to Larger Standard Units	5-118, 5-119, 5-121, 5-122, 5-123
25.	<input type="checkbox"/> 5-22: Volume of Rectangular Prisms	3-100, 5-22
26.	<input type="checkbox"/> 5-30: Interpret Verbal Expressions	5-30
27.	<input type="checkbox"/> 5-135: Hierarchy of Quadrilaterals	4-133, 4-134, 5-133, 5-134, 5-135
28.	<input type="checkbox"/> 5-23: Composite Volume of Rectangular Pris...	5-23
29.	<input type="checkbox"/> 5-129: Introduction to Coordinate Geometry	5-129
30.	<input type="checkbox"/> 5-131: Analyze Proportional Linear Relationsh...	5-130, 5-131

Name:

1.

843,567

$$\underline{8 \times 10^5} + \underline{4 \times 10^4} + \underline{3 \times 10^3} + \underline{5 \times 10^2} + \underline{6 \times 10^1} + \underline{7 \times 10^0}$$

5-24 5.NBT.1, 5.NBT.2

2.

A B
↓ ↓

448,017

A is how much more
than B?

360,000

A is how many times
B?

10

5-70 5.NBT.1

Name:

3.

Round 4.21 to the nearest tenth.

$$4.21 \rightarrow \underline{4.2}$$

5-96 5.NBT.4

4.

What is $4 \times 6,983$?

5-16 5.NBT.5

Name:

5.

The first factor is 49. The second factor is 357. What is the product?

6.

$$\begin{array}{r|l} 634 & \\ 13 \overline{) 8,242} & \\ \underline{-7,800} & 600 \\ 442 & \\ \underline{-390} & 30 \\ 52 & \\ \underline{-52} & 4 \\ 0 & 634 \end{array}$$

5-17 5.NBT.5

5-27 5.NBT.6

7.

$$\begin{array}{c} \overbrace{9-5+4}^4 \\ [(9-5+4) \div 2] \times 8 = \underline{32} \\ \underbrace{\hspace{2cm}}_8 \end{array}$$

8.

$$\frac{\cancel{1}}{\cancel{3}} + \frac{\cancel{3}}{\cancel{5}} = \boxed{\frac{14}{15}}$$
$$\frac{5}{15} \quad \frac{9}{15}$$

$$9 - 5 = 4$$

$$4 + 4 = 8$$

$$8 \div 2 = 4$$

$$4 \times 8 = 32$$

5-29 5.OA.1

5-40 5.NF.1

Name:

9.

$$\frac{\cancel{3}}{\cancel{4}} - \frac{\cancel{3}}{\cancel{5}} = \boxed{\frac{3}{20}}$$
$$\frac{15}{20} - \frac{12}{20}$$

10.

$$\frac{3}{4} \times \frac{9}{10} = \frac{27}{40}$$

5-45 5.NF.1

5-56 5.NF.4

11.

1/5 divided into 7 groups.

$$\frac{1}{5} \div 7 = \frac{1}{35}$$

$$\frac{1}{5} \div \frac{7}{1}$$

$$\frac{1}{5} \times \frac{1}{7} = \frac{1}{35}$$

12.

12 divided into groups of 1/8.

$$12 \div \frac{1}{8} = 96$$

$$\frac{12}{1} \div \frac{1}{8}$$

$$\frac{12}{1} \times \frac{8}{1} = \frac{96}{1}$$

5-72 5.NF.7

5-73 5.NF.7

Name:

13.

$$6\frac{5}{9} + 2\frac{1}{2} = \underline{9\frac{1}{18}}$$

14.

$$10\frac{1}{8} - 4\frac{3}{4}$$

10		$\frac{1}{8}$	-		4		$\frac{3}{4}$		
10		$\frac{1}{8}$			4		$\frac{3}{4}$		$\frac{6}{8}$
9		$\frac{9}{8}$							

$$\underline{5\frac{3}{8}}$$

answer

5-41 5.NF.1

5-46 5.NF.1

15.

$$5\frac{1}{8} \times 6\frac{1}{3} = \underline{32\frac{11}{24}}$$

	6		$\frac{1}{3}$
5	30	$\frac{5}{3}$	
$\frac{1}{8}$	$\frac{6}{8}$	$\frac{1}{24}$	

$$30 + \frac{40}{24} + \frac{18}{24} + \frac{1}{24} = 30\frac{59}{24}$$

16.

$$5.48 + 2.67$$

5.48			+	2.67		
5	.4	.08		2	.6	.07

$$\begin{array}{r} 5.00 + 2.00 = 7.00 \\ \underline{.40} + \underline{.60} = 1.00 \\ \underline{.08} + \underline{.07} = .15 \\ \hline 8.15 \end{array}$$

5-63 5.NF.4

5-99 5.NBT.7

Name:

17.

$$5.93 - 2.45$$

5	.9	.03	2	.4	.05
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5 .8 .13

$$\begin{array}{r} 5.00 - 2.00 = 3.00 \\ \underline{.80} - \underline{.40} = \underline{.40} \\ \underline{.13} - \underline{.05} = \underline{.08} \\ \hline 3.48 \end{array}$$

5-101 5.NBT.7

18.

$$\begin{array}{r} 2.8 \\ \times 3.5 \\ \hline 3.0 \times 2.0 = 6.00 \\ 3.0 \times .8 = 2.40 \\ .5 \times 2.0 = 1.00 \\ .5 \times .8 = .40 \\ \hline 9.8 \end{array}$$

5-106 5.NBT.7

19.

$$6.3 \div .42 = \underline{15}$$

$$\frac{100}{100} \times \frac{6.3}{.42} = \frac{630}{42}$$

$$630 \div 42 = \underline{15}$$

$$\begin{array}{r} 15 \\ 42 \overline{) 630} \\ \underline{- 420} \quad 10 \\ 210 \\ \underline{- 210} \quad 5 \\ 0 \quad 15 \end{array}$$

5-112 5.NBT.7

Name:

20.

A school has 340 students. The school has 323 more students than teachers. The number of students at the school is how many times the number of teachers?

The school has _____ times as many students as teachers.

21.

Clark has three-fourths of a yard of ribbon. Clark uses one-half of a yard to wrap a present. How much ribbon does Clark have left?

5-50 5.NF.2

Clark has _____ of a yard of ribbon left.

Name: _____

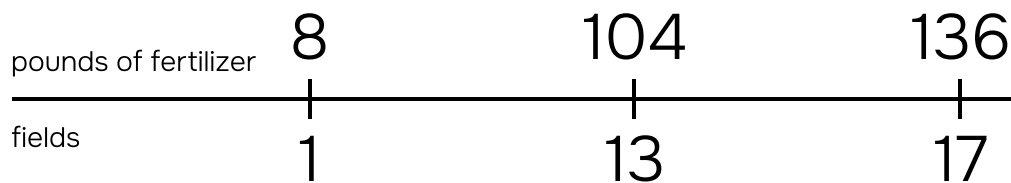
22.

There are $\frac{1}{17}$ as many fiction books as nonfiction books.
There are 288 fewer fiction books than nonfiction books.
How many nonfiction books and fiction books are there all together?

5-85 There are _____ nonfiction books and fiction books all together.

23.

A farm uses 136 pounds of fertilizer for every 17 fields.
How many pounds of fertilizer would be used for 13 fields?



Answer: 104 pounds of fertilizer

5-85 5.NF.5

24.

$$142 \text{ c} = \underline{71} \text{ pt}$$

$$1 \text{ pt} = 2 \text{ c}$$

$$142 \div 2 = 71$$

25.

The length of a rectangular prism is 27, the width is 23 and the height is 8.

Area of base: $\underline{27 \times 23 = 621}$

Volume: $\underline{8 \times 621 = 4,968}$

5-123 5.MD.1

5-22 5.MD.3, 5.MD.4

26.

8 times the quotient of 6 and 2.

Expression:

$$\underline{8 \times (6 \div 2)}$$

Value:

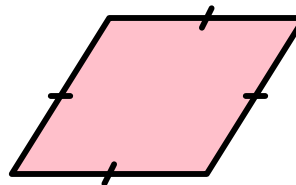
$$\underline{24}$$

27.

Draw a rectangle:



Draw a rhombus:



Is a rectangle a rhombus?

 always

 sometimes

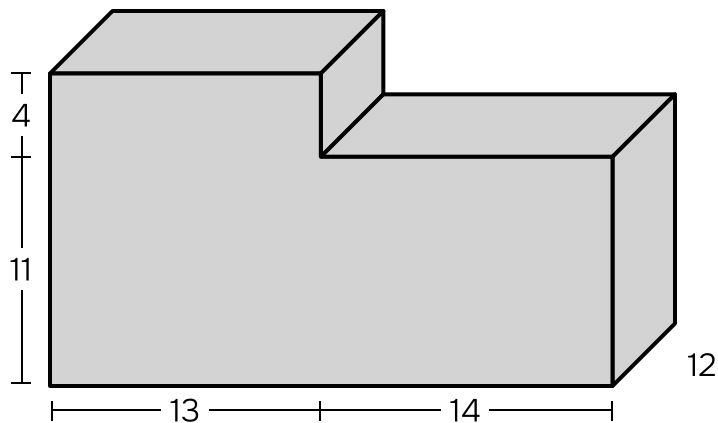
 never

5-30 5.OA.1, 5.OA.2

5-135 5.G.3, 5.G.4

Name:

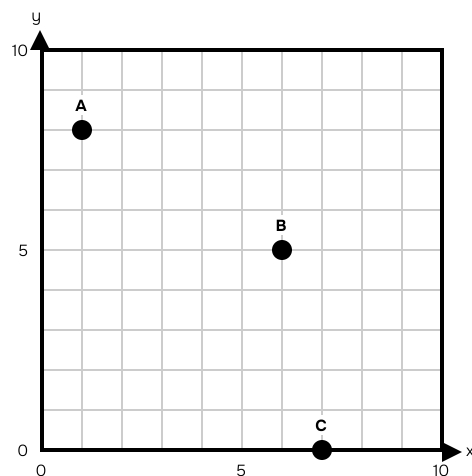
28.



What is the total volume? 4,188

5-23 5.MD.5

29.



Point A (x,y): (1, 8)

Point B (x,y): (6, 5)

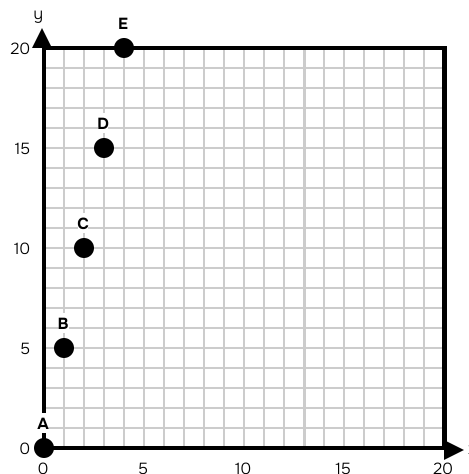
Point C (x,y): (7, 0)

5-129 5.G.1, 5.G.2

Name:

30.

Point	Coordinates
A	(0,0)
B	(1,5)
C	(2,10)
D	(3,15)
E	(4,20)



Rule for X: add 1 X compared to Y: 1/5 as much

Rule for Y: add 5 Y compared to X: 5 times

5-131 5.OA.3, 5.G.2