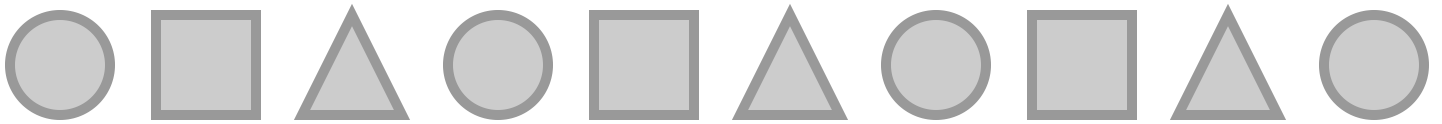


TANG MATH

Grade 6 Readiness Answer Key



Intervention Module
Assessment 1

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.

965,874

$$\underline{9 \times 10^5} + \underline{6 \times 10^4} + \underline{5 \times 10^3} + \underline{8 \times 10^2} + \underline{7 \times 10^1} + \underline{4 \times 10^0}$$

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

2.

A B
↓ ↓
133,746

B is how much less than
A?

$$\frac{27,000}{1/10}$$

B is what fraction of **A**?

5-70 5.NBT.1

Name:

3.

Round 3.95 to the nearest tenth.

$$3.95 \rightarrow \underline{4}$$

5-96 5.NBT.4

4.

What is $6 \times 9,314$?

5-16 5.NBT.5

Name:

5.

The first factor is 38. The second factor is 246. What is the product?

6.

$$\begin{array}{r|l} 523 & \\ 15 \overline{) 7,845} & \\ \underline{-7,500} & 500 \\ 345 & \\ \underline{-300} & 20 \\ 45 & \\ \underline{-45} & 3 \\ 0 & 523 \end{array}$$

5-17 5.NBT.5

5-27 5.NBT.6

7.

$$\begin{array}{c} \overbrace{13} \quad \overbrace{2} \\ (8+5) \times [6 \div (7-4)] = \underline{26} \\ \quad \quad \quad \underbrace{3} \end{array}$$

8.

$$\frac{\cancel{2}}{\cancel{3}} + \frac{\cancel{1}}{\cancel{4}} = \boxed{\frac{11}{12}}$$
$$\frac{8}{12} + \frac{3}{12}$$

$$8 + 5 = 13$$

$$7 - 4 = 3$$

$$6 \div 3 = 2$$

$$13 \times 2 = 26$$

5-29 5.OA.1

5-40 5.NF.1

Name:

9.

$$\frac{\cancel{1}}{\cancel{2}} - \frac{\cancel{2}}{\cancel{9}} = \boxed{\frac{5}{18}}$$
$$\frac{9}{18} - \frac{4}{18}$$

10.

$$\frac{4}{5} \times \frac{2}{9} = \frac{8}{45}$$

5-45 5.NF.1

5-56 5.NF.4

11.

1/4 divided into 8 groups.

$$\frac{1}{4} \div 8 = \frac{1}{32}$$

$$\frac{1}{4} \div \frac{8}{1}$$

$$\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$$

12.

7 divided into groups of 1/7.

$$7 \div \frac{1}{7} = 49$$

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

$$\frac{7}{1} \times \frac{7}{1} = \frac{49}{1}$$

5-72 5.NF.7

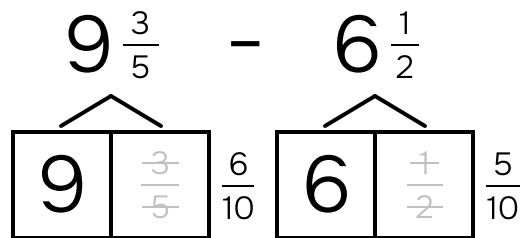
5-73 5.NF.7

Name:

13.

$$4\frac{4}{5} + 3\frac{1}{3} = \underline{8\frac{2}{15}}$$

14.



$$\underline{3\frac{1}{10}}$$

answer

5-41 5.NF.1

5-46 5.NF.1

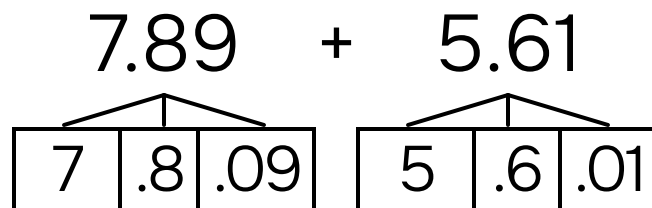
15.

$$4\frac{1}{4} \times 6\frac{5}{8} = \underline{28\frac{5}{32}}$$

	6	$\frac{5}{8}$
4	24	$\frac{20}{8}$
$\frac{1}{4}$	$\frac{6}{4}$	$\frac{5}{32}$

$$24 + \frac{80}{32} + \frac{48}{32} + \frac{5}{32} = 24\frac{133}{32}$$

16.



$$\begin{array}{r} 7.00 + 5.00 = 12.00 \\ \underline{.80} + \underline{.60} = \underline{1.40} \\ \underline{.09} + \underline{.01} = \underline{.10} \\ \hline 13.50 \end{array}$$

5-63 5.NF.4

5-99 5.NBT.7

Name:

17.

$$4.36 - 2.75$$

4	.3	.06	2	.7	.05
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3 1.3 .06

$$\begin{array}{r} 3.00 - 2.00 = 1.00 \\ 1.30 - .70 = .60 \\ .06 - .05 = .01 \\ \hline 1.61 \end{array}$$

5-101 5.NBT.7

18.

$$\begin{array}{r} 5.6 \\ \times 2.3 \\ \hline 2.0 \times 5.0 = 10.00 \\ 2.0 \times .6 = 1.20 \\ .3 \times 5.0 = 1.50 \\ .3 \times .6 = .18 \\ \hline 12.88 \end{array}$$

5-106 5.NBT.7

19.

$$58.2 \div .3 = \underline{194}$$

$$\frac{10}{10} \times \frac{58.2}{.3} = \frac{582}{3}$$

$$582 \div 3 = \underline{194}$$

$$\begin{array}{r} 194 \\ 3 \overline{) 582} \\ \underline{- 300} \quad 100 \\ 282 \\ \underline{- 270} \quad 90 \\ 12 \\ \underline{- 12} \quad 4 \\ 0 \quad 194 \end{array}$$

5-112 5.NBT.7

Name: _____

20.

There are 15 fiction books. There are 255 more nonfiction books than fiction books. The number of nonfiction books is how many times the number of fiction books?

There are _____ times as many nonfiction as fiction books.

21.

Eli spends four-fifths of an hour doing chores. Eli spends one-half of an hour sweeping. How much time did Eli spend doing yard work?

5-50 5.NF.2

Eli spent _____ of an hour doing yard work.

Name: _____

22.

Cara planted $\frac{1}{16}$ as much corn as wheat.

Cara planted 255 more rows of wheat than corn.

How many rows of wheat and corn did Cara plant in all?

565 Cara planted _____ rows of wheat and corn in all.

23.

A juice store makes 208 smoothies with 16 cartons of strawberries.

How many smoothies can the store make with 39 cartons of strawberries?

smoothies	13	208	507
cartons of strawberries	1	16	39

Answer: 507 smoothies

5-85 5.NF.5

24.

$$276 \text{ qt} = \underline{69} \text{ gal}$$

$$1 \text{ gal} = 4 \text{ qt}$$

$$276 \div 4 = 69$$

25.

The length of a rectangular prism is 25, the width is 22 and the height is 7.

Area of base: $\underline{25 \times 22 = 550}$

Volume: $\underline{7 \times 550 = 3,850}$

5-123 5.MD.1

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

26.

9 divided by the
difference between 8
and 5.

Expression:

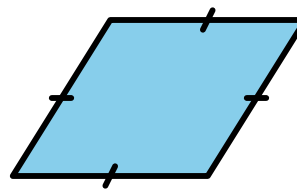
$$\underline{9 \div (8 - 5)}$$

Value:

$$\underline{3}$$

27.

Draw a rhombus:



Draw a parallelogram:



Is a rhombus a parallelogram?

 always sometimes never

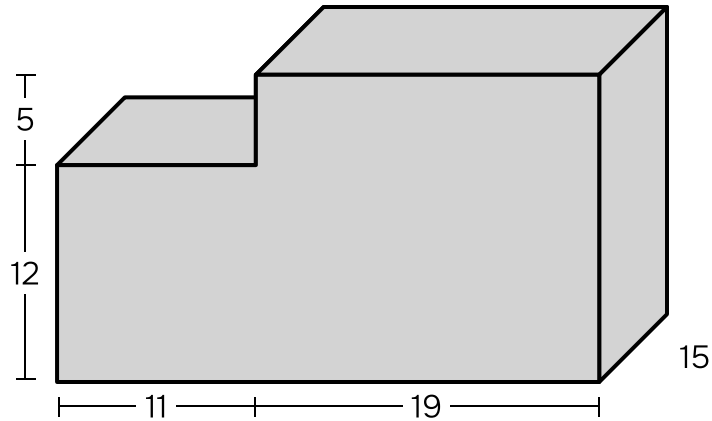
5-30 5.OA.1, 5.OA.2

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

Name: _____

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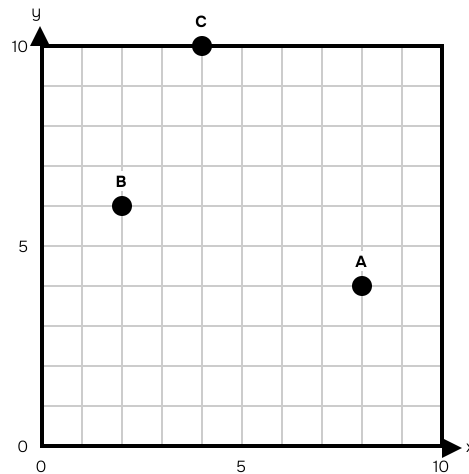
28.



What is the total volume? 6,825

5-23 5.MD.5

29.



Point A (x,y): (8 , 4)

Point B (x,y): (2 , 6)

Point C (x,y): (4 , 10)

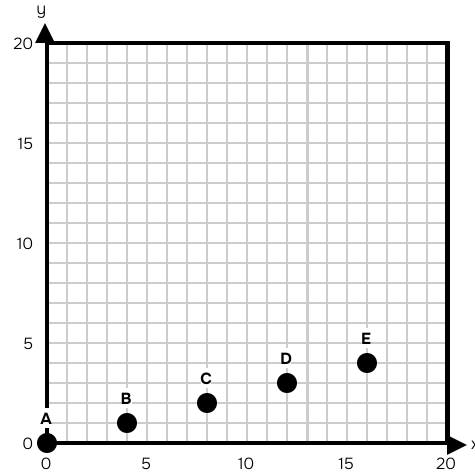
5-129 5.G.1, 5.G.2

Name:

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30.

Point	Coordinates
A	(0,0)
B	(4,1)
C	(8,2)
D	(12,3)
E	(16,4)



Rule for X: add 4 X compared to Y: 4 times
Rule for Y: add 1 Y compared to X: 1/4 as much

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