TANG MATH

Grade 4 Readiness

Answer Key

Intervention Module

Assessment 1

Grade 4 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.	☐ 3-26: Place Value to 10,000: Expanded Form*	1-105, 2-76, 2-77, 3-26
2.	☐ 3-22: Place Value to 1,000: Rename Hundreds ...	2-79, 2-80, 2-82, 3-22
3.	☐ 3-24: Rounding 3-Digit Numbers to the Neare...	3-23, 3-24
4.	☐ 2-95: 3-Digit Addends: Shift 100 & 10	2-91, 2-92, 2-93, 2-94, 2-95
5.	☐ 2-106: 3-Digit Subtrahends: Shift 100 & 10	2-103, 2-104, 2-105, 2-106
6.	☐ 3-33: Multiply 2-5 Groups Fluently with Equati...	2-17, 2-18, 2-20, 3-28, 3-29, 3-30, 3-31, 3-32, 3-33
7.	☐ 3-33: Multiply 2-5 Groups Fluently with Equati...	2-17, 2-18, 2-20, 3-28, 3-29, 3-30, 3-31, 3-32, 3-33
8.	☐ 3-46: Multiply 6-10 Groups using Mental Math	3-39, 3-40, 3-41, 3-42, 3-43, 3-44, 3-45, 3-46
9.	☐ 3-46: Multiply 6-10 Groups using Mental Math	3-39, 3-40, 3-41, 3-42, 3-43, 3-44, 3-45, 3-46
10.	☐ 3-99: Multiply to find Area of Rectangles	3-90, 3-91, 3-99
11.	☐ 3-108: Multiply to 100: Number Bonds	3-106, 3-107, 3-108
12.	☐ 3-96: Divide-by-Grouping Partitioning Rectan...	3-89, 3-93, 3-96
13.	☐ 3-59: Divide-by-Sharing Fluently	1-102, 3-45, 3-57, 3-58
14.	☐ 3-59: Divide-by-Sharing Fluently	1-102, 3-45, 3-57, 3-58
15.	☐ 3-71: Divide-by-Grouping Fluently	1-103, 3-46, 3-69, 3-70
16.	☐ 3-112: Divide to 100 with Regrouping: Number ...	3-109, 3-110, 3-111, 3-112
17.	☐ 3-17: 1-Step Word Problems to 1,000: Larger-...	2-50, 2-51, 3-16, 3-17
18.	☐ 3-19: 2-Step Word Problems to 1,000: Join & S...	1-69, 1-74, 2-63, 2-67, 3-19
19.	☐ 3-20: 2-Step Word Problems to 1,000: Differe...	2-64, 2-65, 2-66, 2-68, 2-69, 2-70, 3-20
20.	☐ 3-34: Multiply 2-5 Groups: Equal Groups Story...	3-34
21.	☐ 3-115: Multiply & Divide to 100 Perimeter & Are...	3-35, 3-103, 3-115
22.	☐ 3-78: Fractions of Fractions	3-75, 3-76, 3-77, 3-78
23.	☐ 3-82: Improper Fractions (a/b ≥ 1)	3-79, 3-80, 3-81, 3-82
24.	☐ 3-87: Compare Fractions with Equal Denomin...	3-83, 3-84, 3-85, 3-86, 3-87
25.	☐ 3-122: Scaled Bar Graphs	2-130, 2-131, 3-48, 3-49, 3-121, 3-122
26.	☐ 3-124: Line Plots to the nearest Halves & Four...	2-128, 2-132, 3-123, 3-124
27.	☐ 3-125: Read & Write Time to the Nearest Minute	1-130, 1-131, 2-125, 2-126, 3-125
28.	☐ 3-129: Elapsed Time Bridge the Hour: End-Tim...	3-126, 3-129
29.	☐ 3-130: Elapsed Time Bridge the Hour: Elapsed...	3-127, 3-128, 3-130
30.	☐ 3-135: Classify & Compare Shapes by Category	K-123, 2-134, 3-134, 3-135

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1.

3,081

3	0	8	1
quantity	quantity	quantity	quantity
1,000	100	10	1
place value	place value	place value	place value
3,000	0	80	1
digit value	digit value	digit value	digit value

3-26 4.NBT.2

2.

745

7	4	5
hundreds	tens	ones

70	4	5
tens	tens	ones

74	5
tens	ones

3-22 3.NBT.2, 3.NBT.3

3.

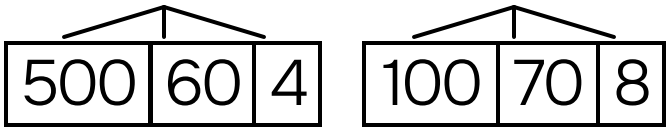
Round 534 to the nearest ten.

534 → 530

3-24 3.NBT.1

4.

564 + 178

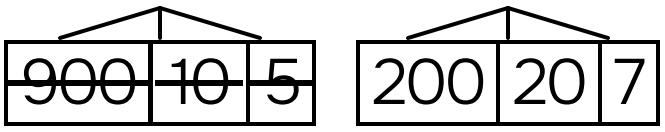


$$\begin{aligned} 500 + 100 &= 600 \\ 60 + 70 &= 130 \\ 4 + 8 &= 12 \\ 600+130+12 &= 742 \end{aligned}$$

2-95 2.NBT.7

5.

915 - 227



~~800~~ ~~110~~ ~~5~~

800 10015

$$\begin{aligned} 800 - 200 &= 600 \\ 100 - 20 &= 80 \\ 15 - 7 &= 8 \\ 600+80+8 &= 688 \end{aligned}$$

2-106 2.NBT.7

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6. $3 \times 7 = 21$

3-33 3.OA.4, 3.OA.7

7. $5 \times 4 = 20$

3-33 3.OA.4, 3.OA.7

8. $8 \times 6 = 48$

3-46 3.OA.4, 3.OA.7

9. $9 \times 8 = 72$

3-46 3.OA.4, 3.OA.7

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10.

A rectangle has a length of 6 centimeters and a width of 9 centimeters.
What is the area?

Area: 6×9=54 cm^2

3-99 3.MD.7

11.

$3 \times 32 = 96$

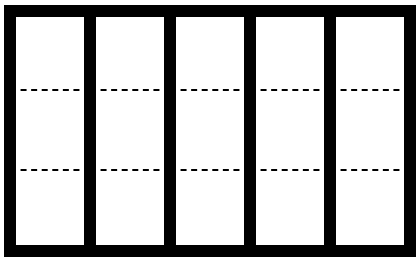
30 | 2

$3 \times 30 = 90$
$3 \times 2 = 6$
$3 \times 32 = 96$

3-108 3.OA.5, 3.OA.7

12.

15 divided into groups of 3 is 5 .



Outline groups of 3.

3-96 3.MD.7, 3.G.2

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13. SOLVE BY SHARING

$28 \div 7 = 4$

3-59 3.OA.7

14. SOLVE BY SHARING

$24 \div 4 = 6$

3-59 3.OA.7

15. SOLVE BY GROUPING

$81 \div 9 = 9$

3-71 3.OA.7

16.

$72 \div 6 = 12$

$60 \div 6 = 10$

$12 \div 6 = 2$

$72 \div 6 = 12$

3-112 3.OA.5, 3.OA.7

17.

Pearl finds 186 golf balls. Pearl finds 152 fewer golf balls than Austin. How many golf balls did Austin find?

Austin found _____ golf balls.

3-17 2.OA.1, 3.NBT.2

18.

A shelter had 96 dogs and 49 cats available for adoption. During their big adoption event, 58 pets were adopted. How many animals are still looking for a home?

___ animals are still looking for a home.

3-19 2.OA.1, 3.OA.8

19.

Sloan and Walker find 387 golf balls all together. Walker finds 138 golf balls. How many more golf balls did Sloan find than Walker?

Sloan finds ___ more golf balls than Walker.

3-20 2.OA.1, 3.OA.8

20.

TJ bakes 5 casseroles.
TJ uses 8 mushrooms in each casserole.
How many mushrooms did TJ use in all?

TJ used ___ mushrooms in all.

3-34 3.OA.3

21.

The long side of a rectangle is 18 ft.
The short side of the rectangle is 5 ft.
What is the perimeter of the rectangle?
What is the area of the rectangle?

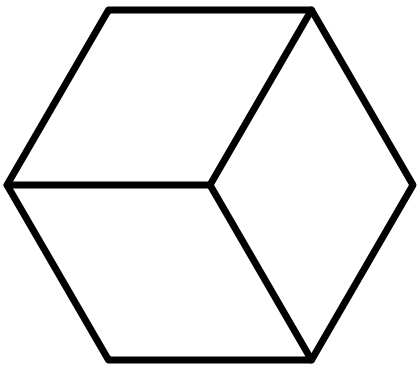
a The rectangle's perimeter is ____ ft.

b The rectangle's area is ____ sq ft.

3-115 3.MD.8

22.

Partition the shape into **3 equal parts**.



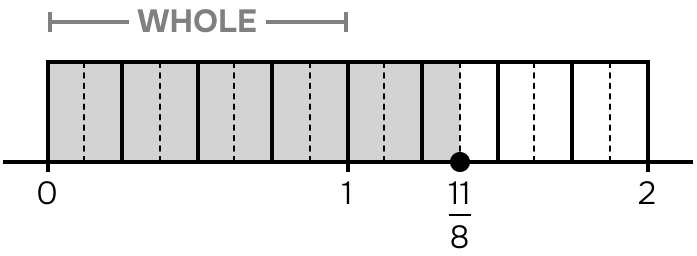
What is the name of each part?

half | third | fourth | sixth | eighth

Shape name: hexagon

3-78 3.NF.1, 3.G.2

23.



How many equal parts in 1? 8

How many parts are shaded? 11

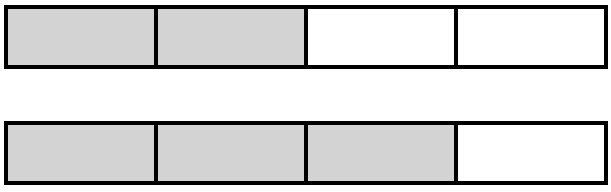
What fraction is shaded? 11/8

3-82 3.NF.2

24.

Use the **equal denominators** strategy.

$$\frac{2}{4} \boxed{<} \frac{3}{4}$$



More shaded parts: 2/4 = 3/4

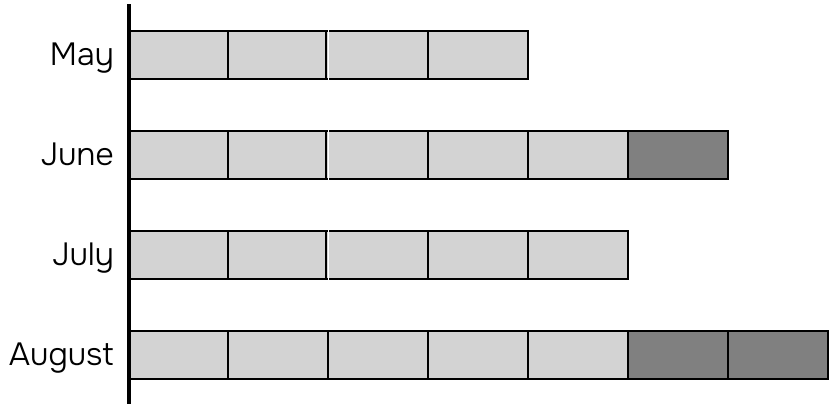
Bigger parts: 2/4 = 3/4

3-87 3.NF.3

25.

The model below represents the number of books that were donated to the school library last summer.

Each ▭ represents 13 books.



65 books were donated in which month?
a) May b) June c) July d) August — C

How many books were donated in August? — 91

How many books were donated in May? — 52

How many books were donated in all the months? — 286

How many more books were donated in June than May? — 26

How many fewer books were donated in July than June? — 13

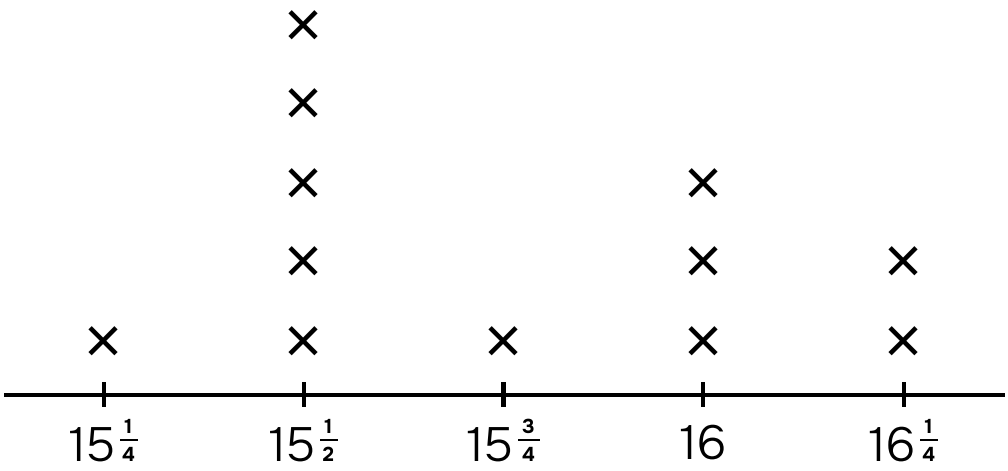
3-122 3.MD.3

26.

$15\frac{1}{4}$ in, $15\frac{1}{2}$ in, $15\frac{3}{4}$ in, 16 in, $16\frac{1}{4}$ in, $15\frac{1}{2}$ in, 16 in

$16\frac{1}{4}$ in, $15\frac{1}{2}$ in, $15\frac{1}{2}$ in, $15\frac{1}{2}$ in, 16 in

Number of Garter Snakes



Length of Garter Snakes (in)

How many garter snakes measure 16 ¼ in? 2

How many garter snakes measure 15 ¼ in? 1

How many more garter snakes measure 16 ¼ in than 15 ¼ in? 1

What is the total number of garter snakes? 12

Which length was observed the most? $15\frac{1}{2}$ in

What is the shortest length observed? $15\frac{1}{4}$ in

What is the longest length observed? $16\frac{1}{4}$ in

3-124 3.MD.4

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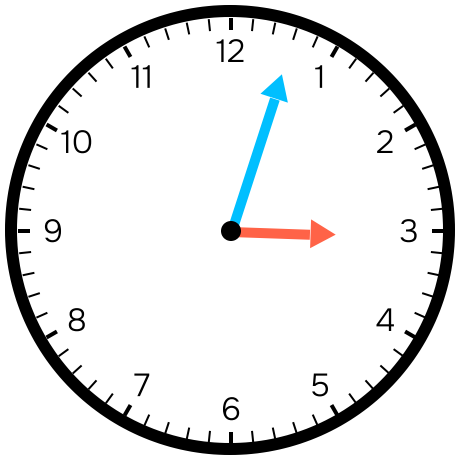
27.



Hour hand is between: 3 & 4

Minutes after the hour: 3

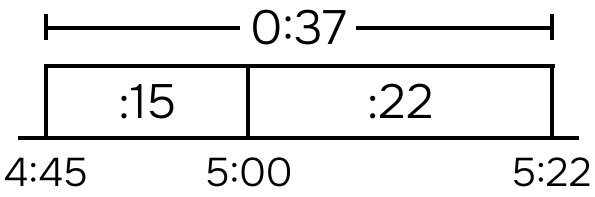
What time is it? 3 :03

3-125 3.MD.1

28.

The start time is 4:45. The elapsed time is 0:37. What is the end time?

5 : 22

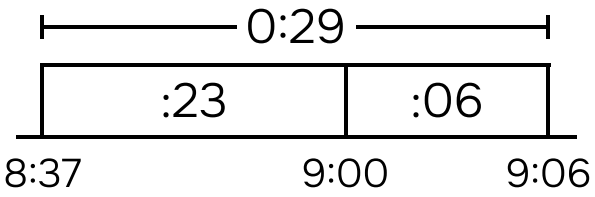


3-129 3.MD.1

29.

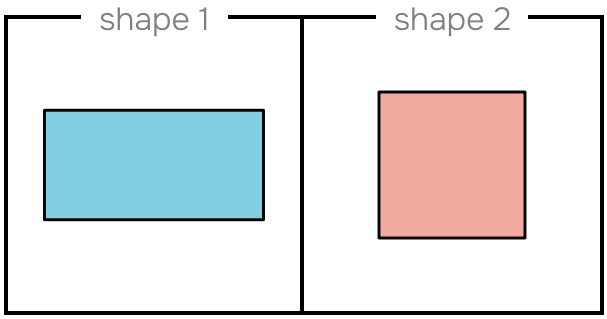
The start time is 8:37. The end time is 9:06. What is the elapsed time?

0 : 29



3-130 3.MD.1

30.



Shared Attributes:

- [ ] 3 sides
- [x] 4 sides
- [ ] 5 sides
- [ ] 6 sides
- [x] square corners
- [ ] all sides equal

Shared Categories:

- [ ] triangle
- [x] quadrilateral
- [ ] rhombus
- [x] rectangle
- [ ] square
- [ ] pentagon
- [ ] hexagon

3-135 3.G.1

