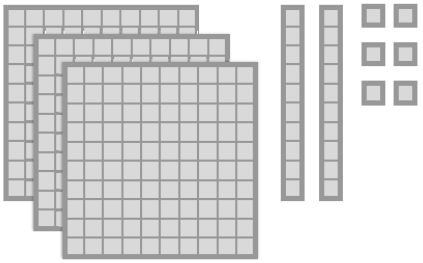
Name: _____ Date: _____

Placement Test for Primary Mathematics 3A

1. Count and write the numbers. [1]



_____

2. Write the numbers in standard form. [2]

   (a) four hundred seventeen _____

   (b) nine hundred five _____

3. Write the numbers in word form. [2]

   (a) 845

   _____

   (b) 720

   _____

4. Write the missing numbers. [2]

   (a) 4 hundreds 8 tens 5 ones = _____

   (b) 813 = _____ hundreds 1 ten 3 ones

5. Write the numbers in expanded form. [2]

(a) 187 = _____ + _____ + _____

(b) 940 = _____ + _____ + _____

6. Write the missing numbers. [4]

(a) _____ is 1 more than 549.

(b) _____ is 10 less than 780.

(c) _____ is 10 more than 490.

(d) 345 is _____ more than 245.

7. Fill in the missing numbers in the number patterns. [2]

(a) 32, 34, 36, 38, 40, _____, _____

(b) 87, 84, 81, _____, _____, 72, 69

8. Write **<**, **=**, or **>**. [4]

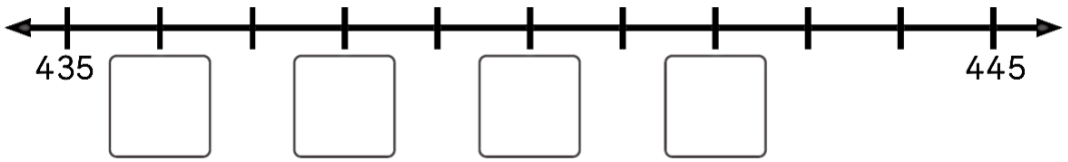
(a) 450 ◯ 499 (b) 178 ◯ 187

(c) 814 ◯ 481 (d) 670 ◯ 600 + 70

9. Which group shows the numbers in order from greatest to least? [1]

(A) 708, 780, 807, 870
(B) 780, 870, 708, 807
(C) 807, 870, 708, 780
(D) 870, 807, 780, 708

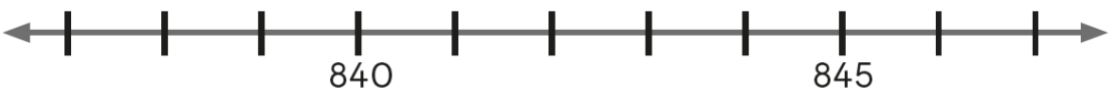
10. Write the missing numbers. [4]



11. Draw arrows to show the positions of the numbers on the number lines. [2]

(a) 578

(b) 837



12. Add or subtract mentally. [4]

(a) 3 + 9 = _____ (b) 9 + 6 = _____

(c) 16 – 7 = _____ (d) 15 – 9 = _____

13. Add. Show your work. [4]

(a) 365 + 24 = _____ (b) 217 + 712 = _____

14. Subtract. Show your work. [4]

(a) 538 – 26 = _____ (b) 485 – 281 = _____

15. Round 467 to the nearest ten.

Which is the correct answer? [1]

(A) 460 (B) 470

(C) 400 (D) 500

16. Which number gives 900 when rounded to the nearest hundred? [1]

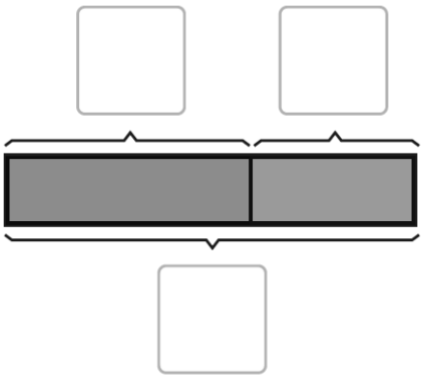
(A) 839 (B) 845

(C) 918 (D) 962

17. Aubrey has 67 game cards.

Her brother gives her another 45 game cards.

How many game cards does Aubrey have in all? [3]



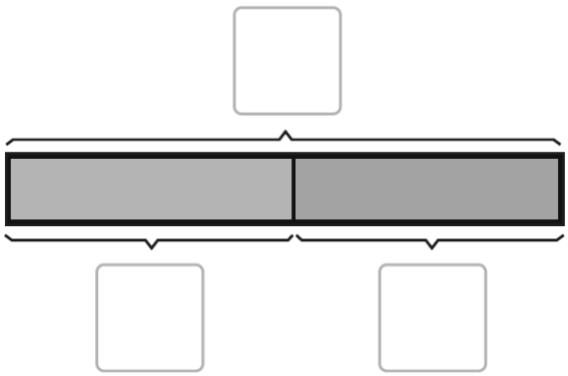
_____ ◯ _____ = _____

Aubrey has _____ game cards in all.

18. Farmer Luke has 306 eggs.

He sells 158 eggs.

How many eggs does Farmer Luke have left? [3]



_____ ◯ _____ = _____

Farmer Luke has _____ eggs left.

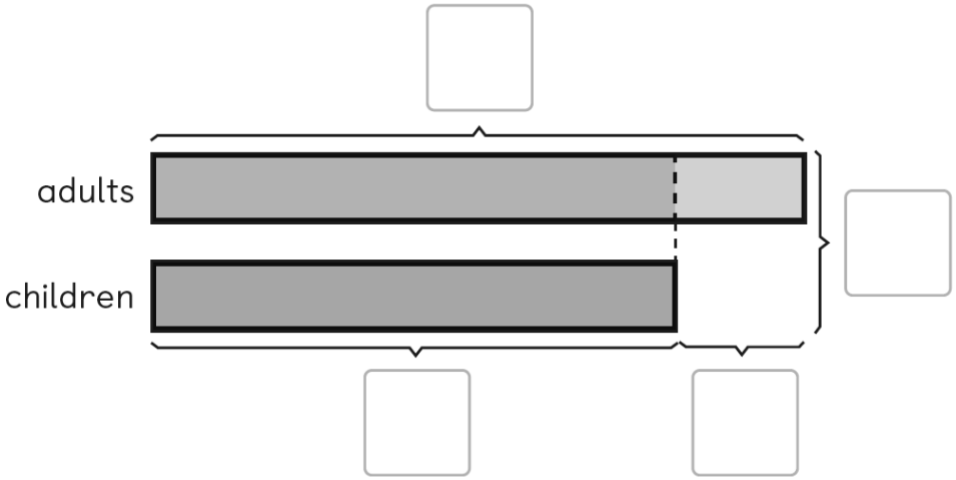
19. There are 91 adults at a carnival.

There are 18 fewer children than adults.

(a) How many children are at the carnival?

(b) How many adults and children are at the carnival in all?

[5]



(a) _____ ○ _____ = _____

_____ children are at the carnival.

(b) _____ ○ _____ = _____

_____ adults and children are at the carnival in all.

20. How many pairs can you make? [1]

(A) 1 (B) 2

(C) 4 (D) 8

21. Write the missing numbers. [3]

6 groups of _____

5 + 5 + 5 + 5 + 5 + 5 = _____

6 fives = _____

22. How many stickers are there in all? [3]

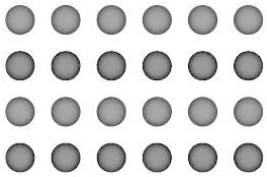
3 rows of _____

_____ + _____ + _____ = _____

There are _____ stickers in all.

23. Write the missing numbers. [4]

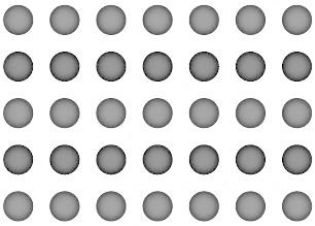
(a)



4 × 6 = _____

24 ÷ 4 = _____

(b)



5 × 7 = _____

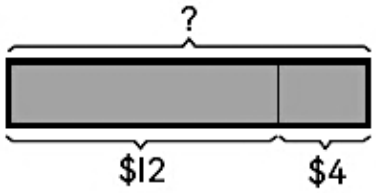
35 ÷ 5 = _____

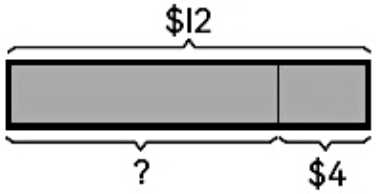
24. Write a multiplication equation and a division equation. [2]

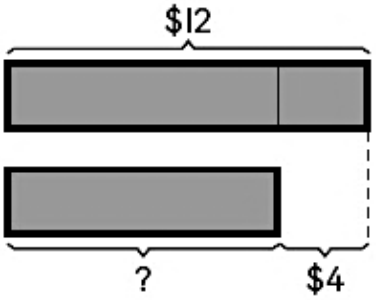
_____ ◯ _____ = _____

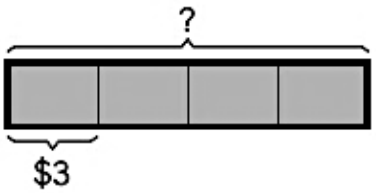
_____ ◯ _____ = _____

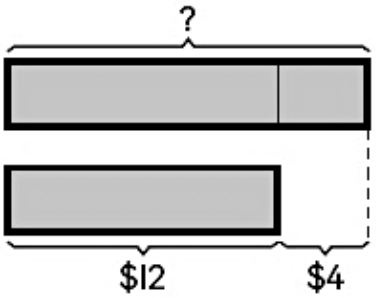
25. Match each bar model to a word problem. [5]





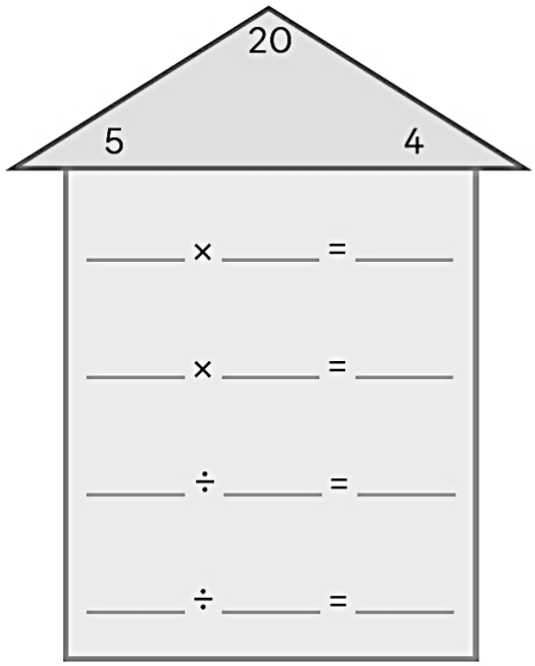


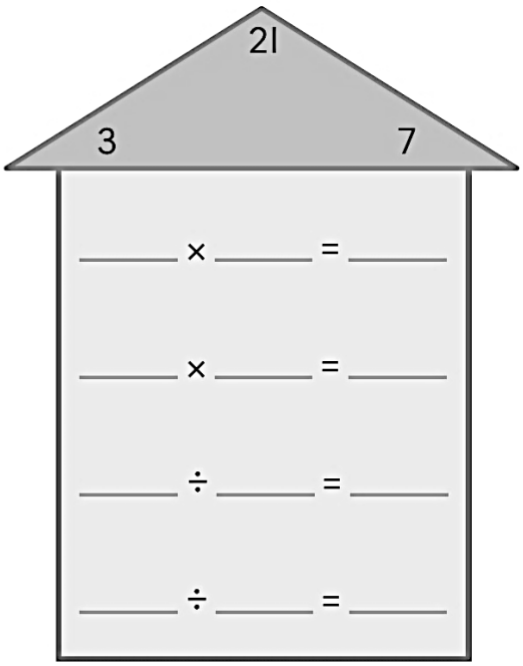


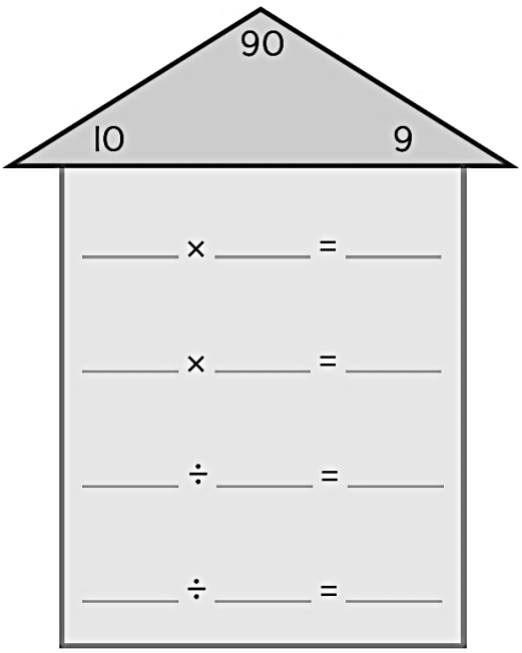


- Anya has $12. She spends $4. How much money does she have left?
- Isabel has $4 less than Joseph. Isabel has $12. How much money does Joseph have?
- Jade and her three sisters have $3 each. How much money do they have in all?
- Layla has $12. Her father gives her another $4. How much money does she have now?
- Caleb has $12. He has $4 more than Chloe. How much money does Chloe have?

26. Write the related multiplication and division equations using the numbers given. [3]





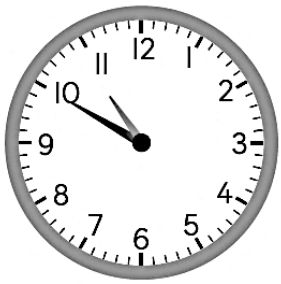


27. Write **past** or **to** to tell the time. [2]

(a)

15 minutes _____ 6

(b)



10 minutes _____ 11

28. Write the time. [2]

(a)

_____ : _____

(b)

_____ : _____

29. Write the time using **a.m.** or **p.m.** [2]

(a)

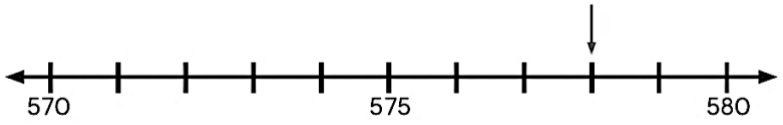
It is _____.

(b)

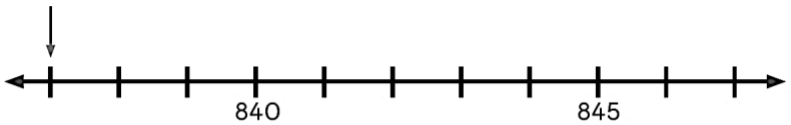
It is _____.

Answer Key

1. 326
2. (a) 417 (b) 905
3. (a) eight hundred forty-five
   (b) seven hundred twenty
4. (a) 485 (b) 8
5. (a) 100, 80, 7
   (b) 900, 40, 0
6. (a) 550 (b) 770
   (c) 500 (d) 100
7. (a) 42, 44
   (b) 78, 75
8. (a) < (b) <
   (c) > (d) =
9. D
10. 436, 438, 440, 442
11. (a)



(b)



12. (a) 12 (b) 15
    (c) 9 (d) 6

13. (a) 389

$$\begin{array}{r} 365 \\ +\ 24 \\ \hline 389 \end{array}$$

(b) 929

$$\begin{array}{r} 217 \\ +712 \\ \hline 929 \end{array}$$

14. (a) 512

$$\begin{array}{r} 538 \\ -\ 26 \\ \hline 512 \end{array}$$

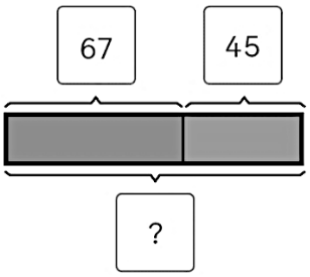
(b) 204

$$\begin{array}{r} 485 \\ -281 \\ \hline 204 \end{array}$$

15. B

16. C

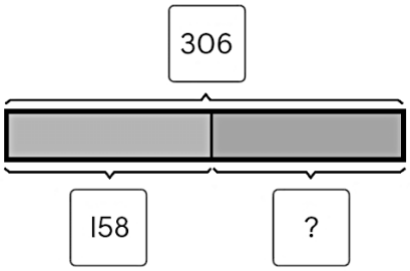
17.



67 + 45 = 112

112

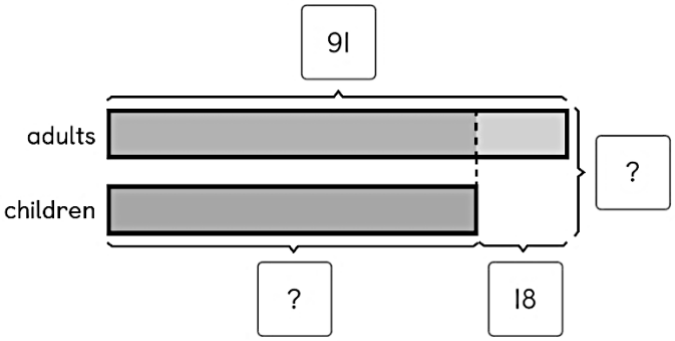
18.



306 – 158 = 148

148

19.



(a) 91 – 18 = 73

73

(b) 91 + 73 = 164

164

20. C

21. 5, 30, 30

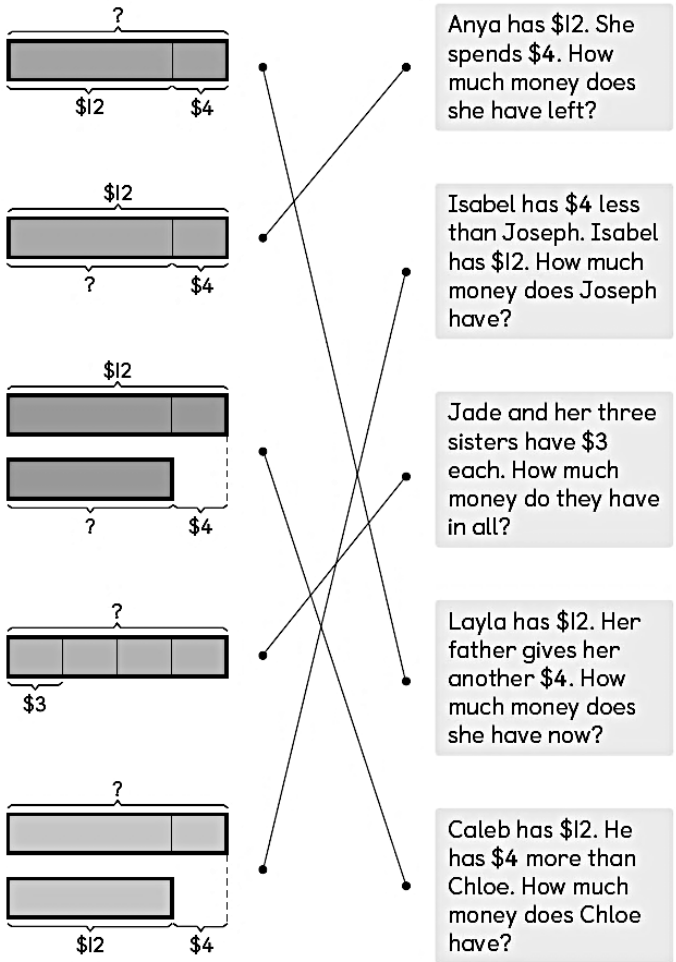
22. 6, 6, 6, 6, 18, 18

23. (a) 24, 6 (b) 35, 7

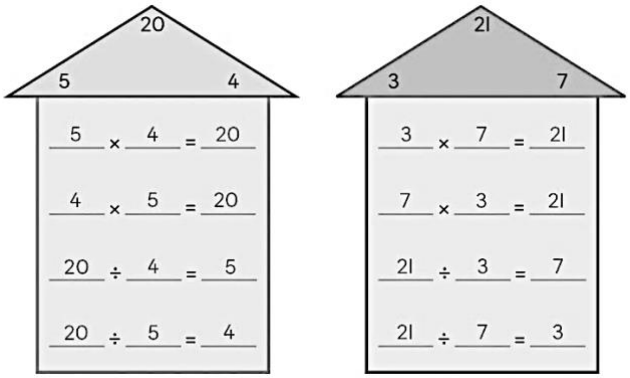
24. 3 x 8 = 24

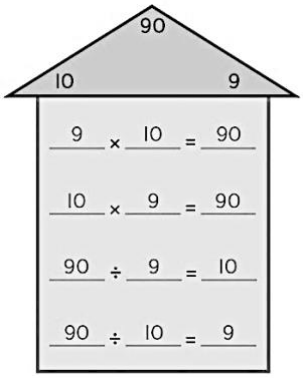
24 ÷ 8 = 3

25.



26.





27. (a) past (b) to

28. (a) 3:05 (b) 12:40

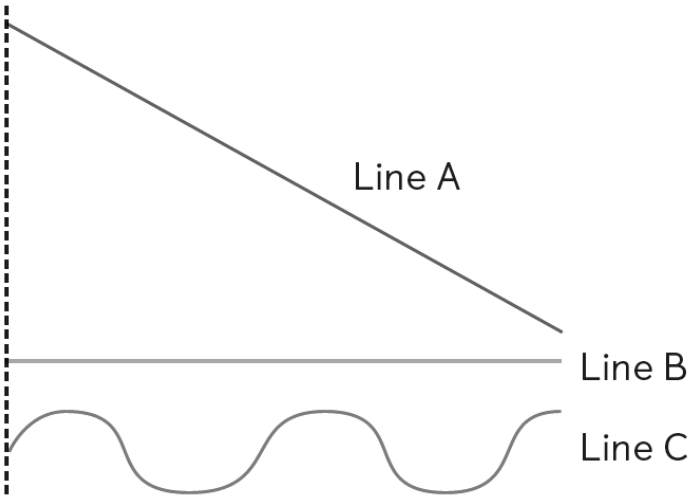
29. (a) 7:45 a.m.

(b) 7:10 p.m.

Name: _____ Date: _____

Placement Test for
Primary Mathematics 3B

1. Which line is the longest? Which is the shortest? [5]



Measure the lines.

Length of Line A: _____ cm

Length of Line B: _____ cm

Length of Line C: _____ cm

Longest: Line _____ Shortest: Line _____

2. Circle the correct length for each object. [4]

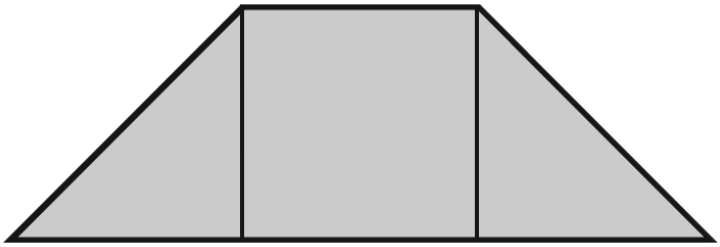
(a) Length of a book 26 cm or 26 m

(b) Height of a door 2 cm or 2 m

(c) Length of a baseball bat 2 in. or 2 ft

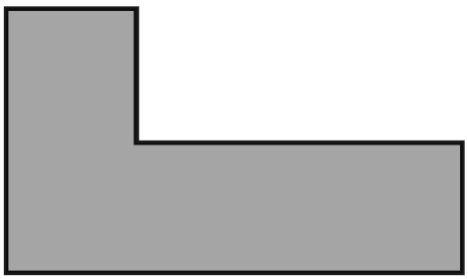
(d) Width of a backpack 17 in. or 17 yd

3. A square and two triangles are put together to make this shape. [1]



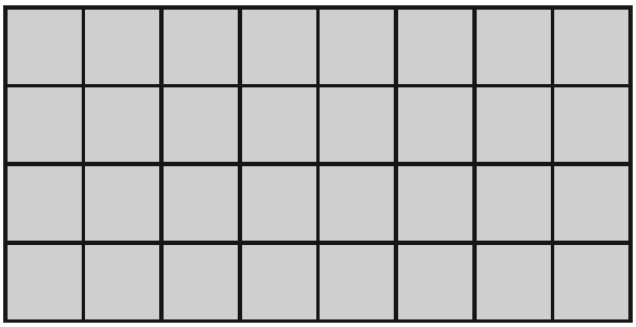
Use a square and two triangles to make another shape.

4. Draw a line in the shape to show a rectangle and a square. [1]



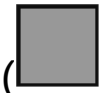
5. Multiply.

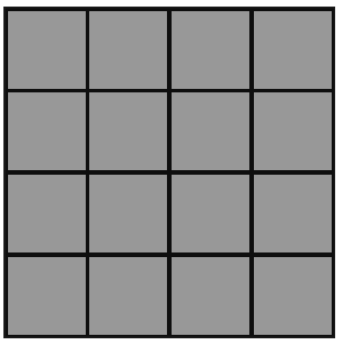
How many small squares () are there? [1]



4 x 8 = _____

6. Multiply.

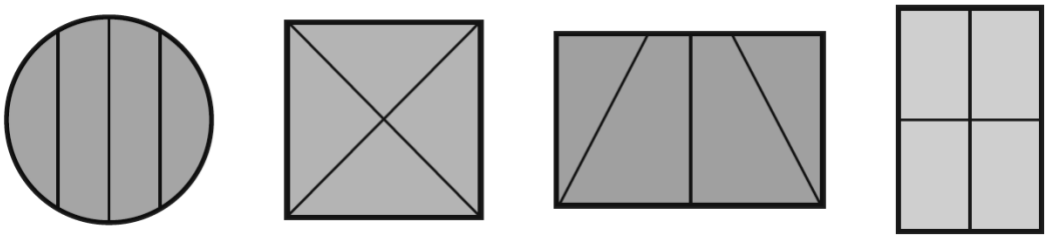
How many small squares () are there? [1]



4 x 4 = _____

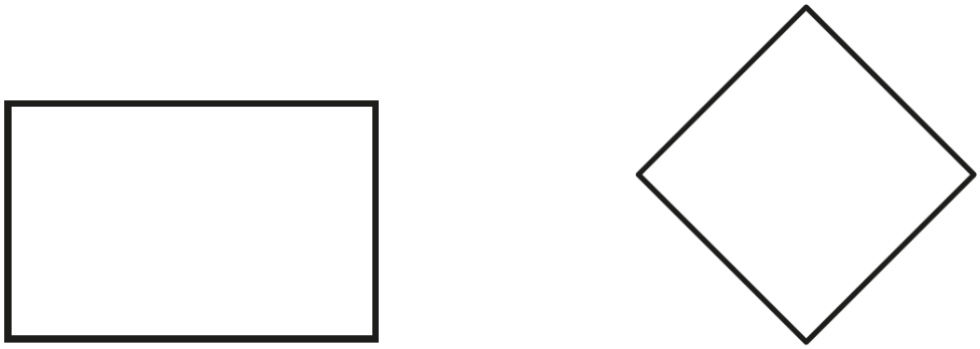
7. Which shapes are divided into fourths?

Circle the correct answers. [2]



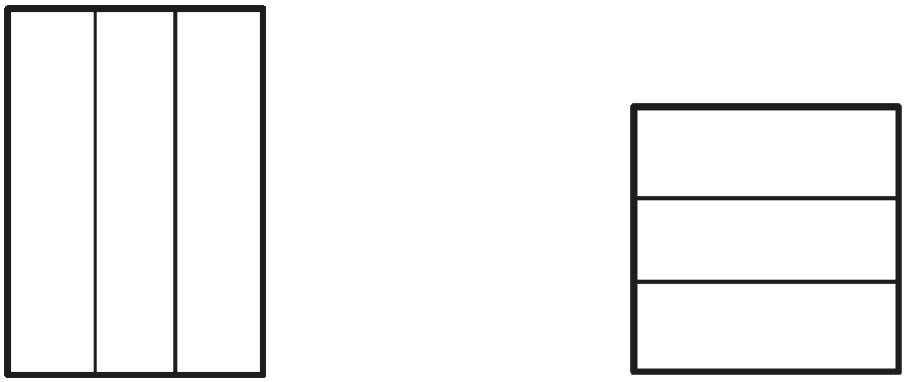
8. Divide each shape into halves. [2]

(a) (b)



9. Color a third of each shape. [2]

(a) (b)



Name: _____ Date: _____

10. Write **heavier** or **lighter**. [2]

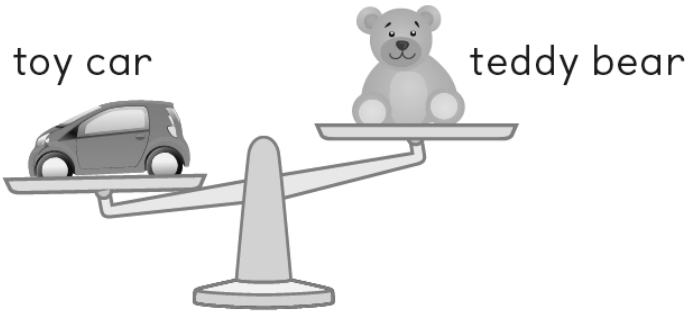
(a)

The cow is _____ than the duck.

(b)

The cat is _____ than the goat.

11. Look at the picture. [2]



(a) The _____ is heavier than the _____.

(b) The _____ is lighter than the _____.

12. Circle the item that is heavier. [3]

(a) An apple or a pumpkin?

(b) An orange or a feather?

(c) A jar full of beans or a jar full of cotton?

13. Which glass has more water? [1]

Glass A Glass B

(A) Glass A (B) Glass B

(C) Glasses A and B have the same amount of water.

Name: _____ Date: _____

14. Which jug has more juice? [1]

Jug C Jug D

(A) Jug C (B) Jug D

(C) Jugs C and D have the same amount of juice.

15. Which bottle has less water? [1]

Bottle E Bottle F

Bottle _____ has less water than Bottle _____.

16. The tally chart below shows the ways in which some third graders travel to school. [6]

Way to Get to School	Tally
Walk	𝍸 |
Bike	|||
Car	𝍸 |
School Bus	𝍸 |||

(a) Use the data in the tally chart to complete the picture graph.

Ways Third Graders Travel to School

Walk	
Bike	○ ○ ○
Car	
School Bus	
Key: Each ○ represents 1 child.	

Fill in the blanks.

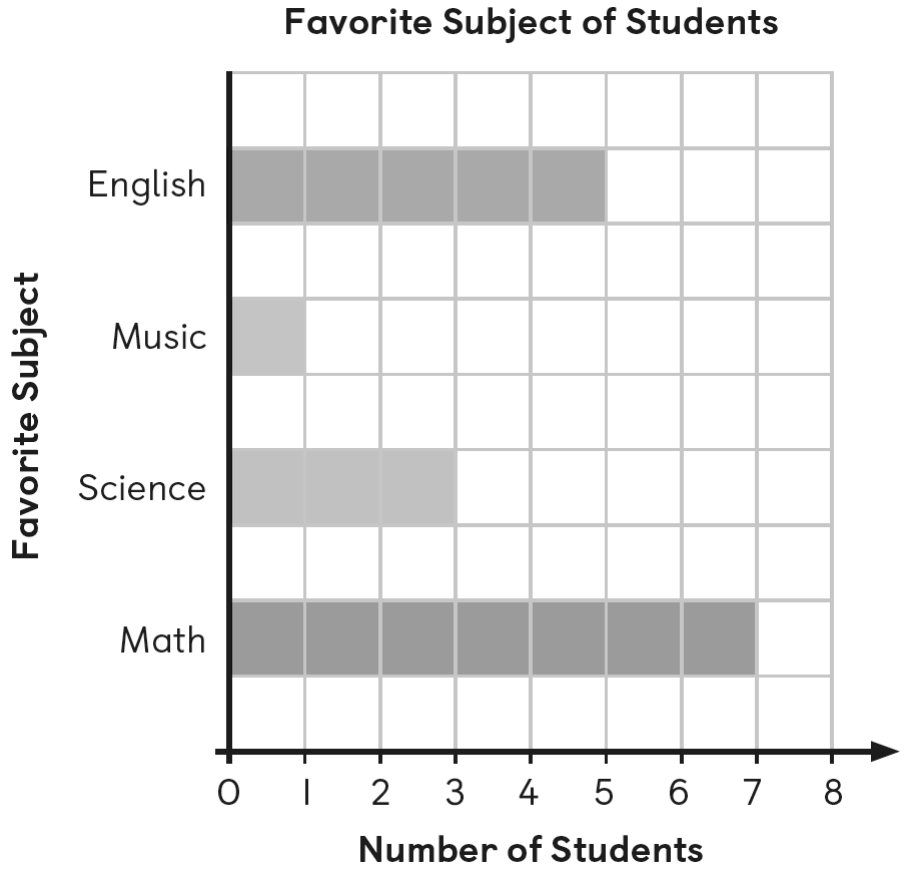
(b) _____ children walk to school.

(c) The least number of children travel to school by _____.

(d) A total _____ of children travel to school by bike or car.

Name: _____ Date: _____

17. A group of students were asked to select their favorite subject. The bar graph shows the data. [4]



Fill in the blanks.

(a) _____ students selected English.

(b) _____ was the most popular subject among the students.

(c) _____ students selected the most popular subject.

(d) A total of _____ students were asked to select their favorite subject.

18. Kiera measured the lengths of some pencils to the nearest centimeter and recorded the results in a table. [4]

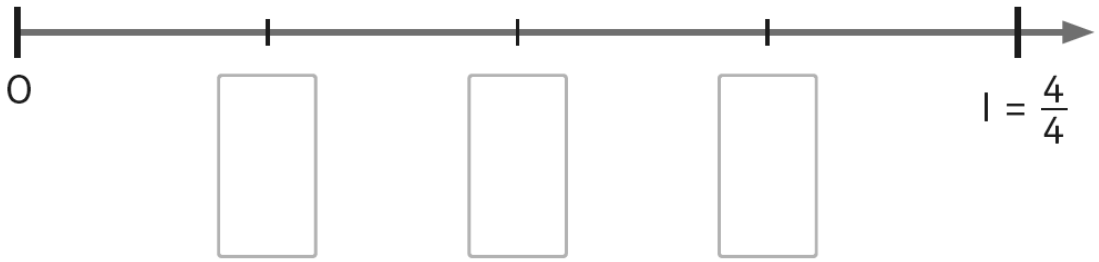
Length of Pencil (centimeters)	10	11	12	13
Number of Pencils	2	3	1	2

Show the data on a line plot.

Length of Pencils

Length (centimeters)

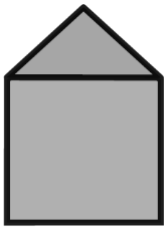
19. Fill in the correct fractions on the number line. [3]



Name: _____ Date: _____

20. Name the shapes used to make the figures. [4]

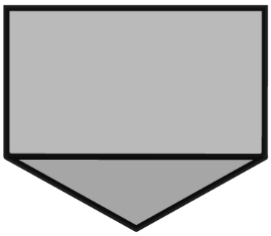
(a)



_____

_____

(b)

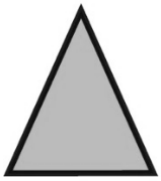


_____

_____

21. How many angles are there in each shape? [2]

(a)

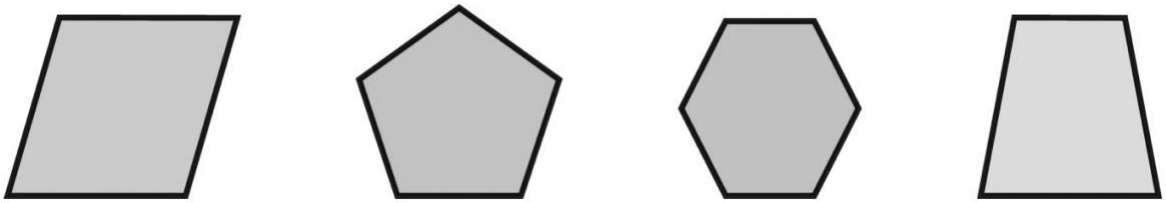


_____

(b)

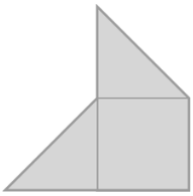
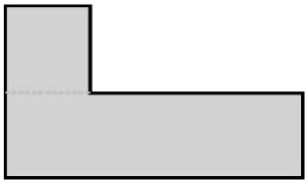
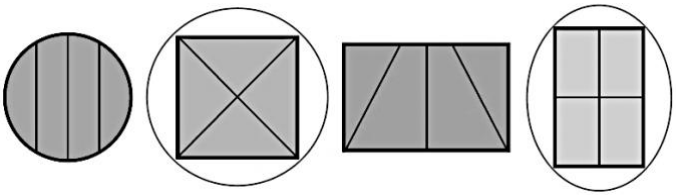
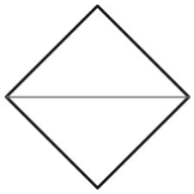
_____

22. Circle the shapes that are quadrilaterals. [2]



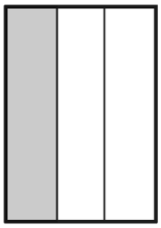
Name: _____ Date: _____

Answer Key

1. 8, 7, 9, C, B
2. (a) 26 cm (b) 2 m
   (c) 2 ft (d) 17 in.
3. 
4. 
5. 32
6. 16
7. 
8. Answers vary. Example:
   (a)
   
   (b)
   

9. Answers vary. Example:

(a)



(b)

10. (a) heavier

(b) lighter

11. (a) toy car, teddy bear

(b) teddy bear, toy car

12. (a) pumpkin

(b) orange

(a) a jar full of beans

13. C

14. A

15. F, E

16. (a)

Ways Third Graders Travel to School

Walk	○○○○○○
Bike	○○○
Car	○○○○○○
School Bus	○○○○○○○○
Key: Each ○ represents 1 child.	

(b) 6

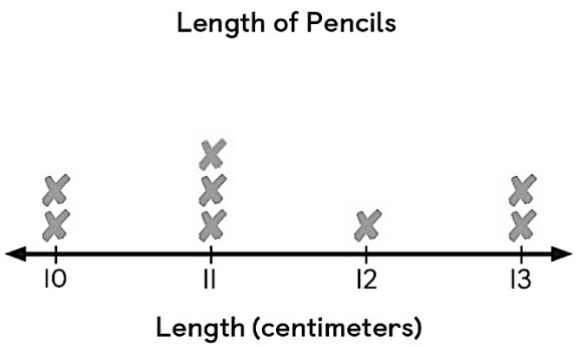
(c) bike

(d) 9

17. (a) 5 (b) Math

(c) 7 (d) 16

18.



19. $\frac{1}{4}, \frac{2}{4}$ or $\frac{1}{2}, \frac{3}{4}$

20. (a) triangle, square

(b) rectangle, triangle

21. (a) 3 (b) 4

22.