Grade 3 GWM/CMT Practice: Topic 13 (Obj. 17B, 17A, 2A, 2B)

Name_____ Date_____ Part 1

(17B)

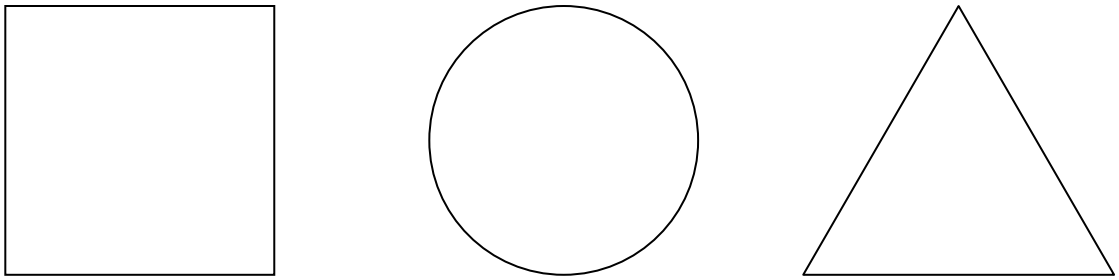
1. Draw a closed shape with exactly 4 sides.

2. Draw a six-sided polygon.

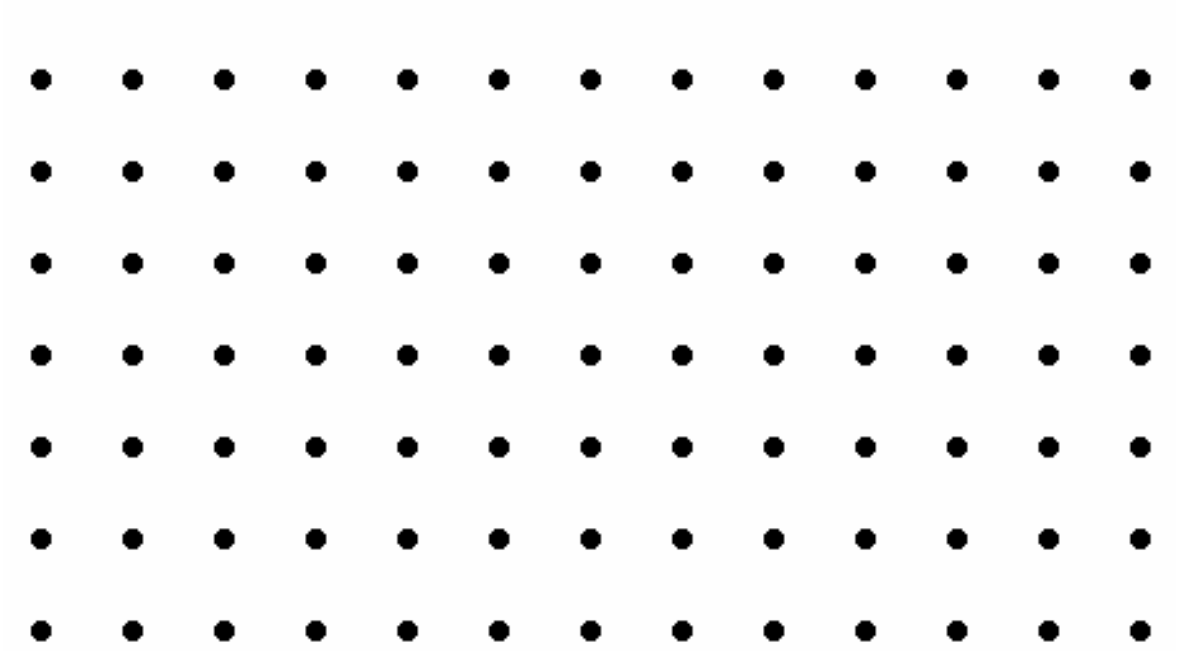
3. Draw a polygon with exactly 5 angles.

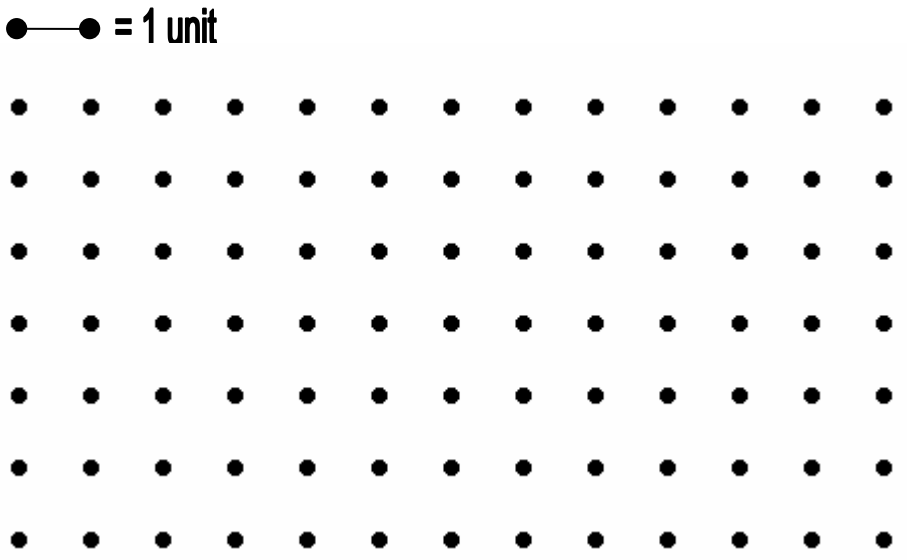
(17B)

4. Draw a rectangle inside the triangle.



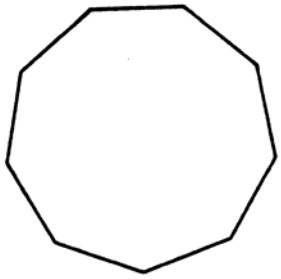
5. Draw a polygon by connecting dots on the grid.



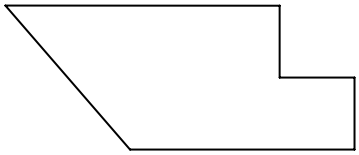

= 1 unit

(17A)

8. How many angles does this shape have?



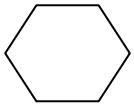
○ 10
○ 9
○ 8
○ 7



9. How many sides does the figure have?

○ 5
○ 6
○ 7
○ 8

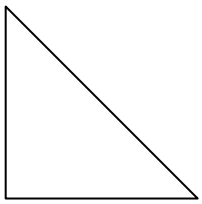
10. What is the name of the shape?

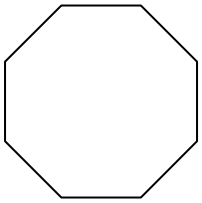


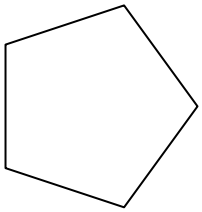
○ rectangle ○ hexagon
○ parallelogram ○ triangle

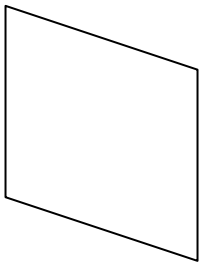
(17A)

11. Which shape is a parallelogram?

○ 

○ 

○ 

○ 

12. Which shape has exactly 3 sides?

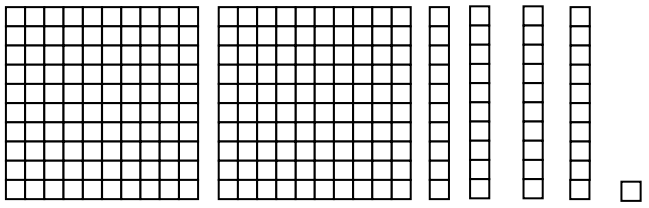
○ rectangle
○ hexagon
○ triangle
○ parallelogram

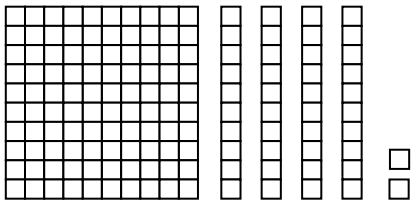
Grade 3 GWM/CMT Practice: Topic 13 (Obj. 17B, 17A, 2A, 2B)

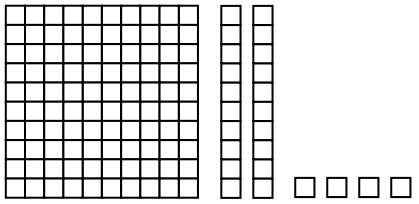
Name_____Date_____Part 2

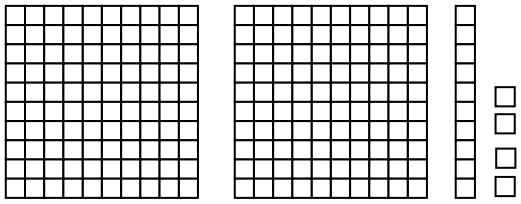
(2A)

1. Which picture shows 124?

○ 

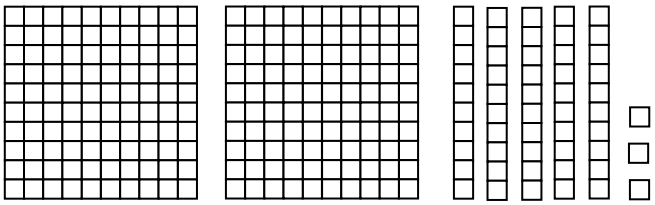
○ 

○ 

○ 

(2A)

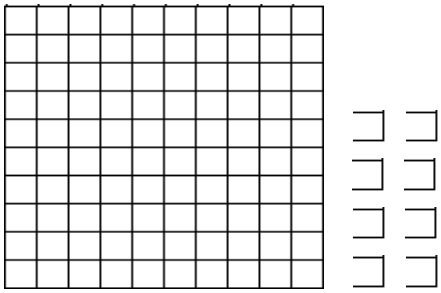
2. Which number is shown by the blocks in this picture?



- ○ 325
- ○ 253
- ○ 532
- ○ 235

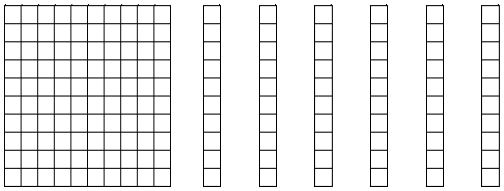
(2A)

4. What is the value of the blocks?



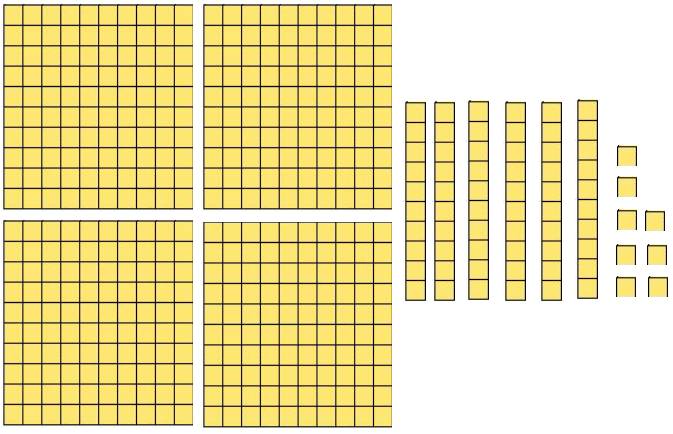
- ○ 108
- ○ 180
- ○ 801
- ○ 810

3. The blocks in the picture show which number?



- ○ 610
- ○ 601
- ○ 160
- ○ 106

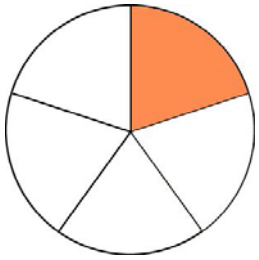
5. The blocks in the picture show which number?



- ○ 864
- ○ 648
- ○ 486
- ○ 468

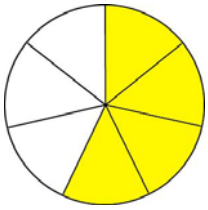
(2B)

6. What fractional part of the shape is shaded?



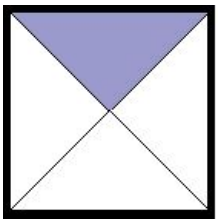
- ○ $\frac{1}{3}$
- ○ $\frac{1}{4}$
- ○ $\frac{1}{5}$
- ○ $\frac{1}{6}$

7. The shaded part of this picture shows which fraction?



- ○ $\frac{3}{4}$
- ○ $\frac{3}{7}$
- ○ $\frac{4}{3}$
- ○ $\frac{4}{7}$

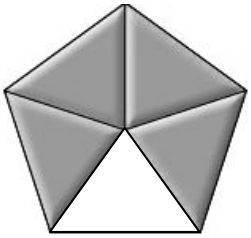
(2B)



8. How much of the shape is shaded?

- ○ $\frac{1}{3}$
- ○ $\frac{1}{4}$
- ○ $\frac{3}{4}$
- ○ $\frac{4}{3}$

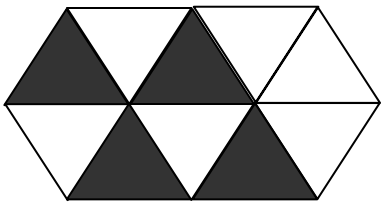
9. How much of the figure is shaded?



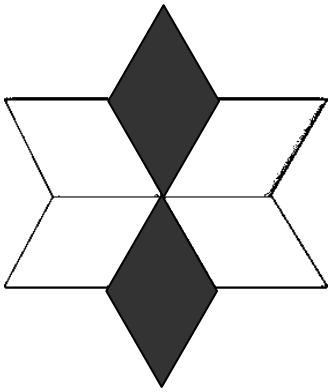
- ○ $\frac{1}{4}$
- ○ $\frac{4}{5}$
- ○ $\frac{5}{4}$
- ○ $\frac{4}{1}$

(2B)

10. What fractional part of the shape is shaded?



- ○ $\frac{4}{10}$
- ○ $\frac{6}{10}$
- ○ $\frac{4}{6}$
- ○ $\frac{6}{4}$

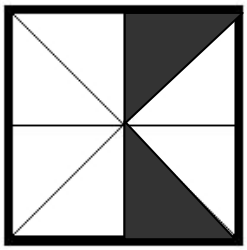


11. The shaded part of the figure shows which fraction?

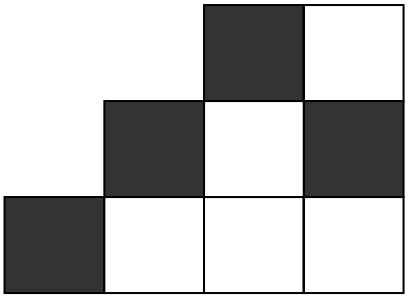
- ○ $\frac{2}{4}$
- ○ $\frac{4}{2}$
- ○ $\frac{2}{6}$
- ○ $\frac{4}{6}$

(2B)

12. What fractional part of the figure is shaded?



- ○ $\frac{2}{6}$
- ○ $\frac{2}{8}$
- ○ $\frac{6}{8}$
- ○ $\frac{2}{4}$



13. What fractional part of the figure is shaded?

- ○ $\frac{4}{5}$
- ○ $\frac{4}{9}$
- ○ $\frac{5}{4}$
- ○ $\frac{5}{9}$

(2B)

14. What fractional part of the set of objects is shaded?

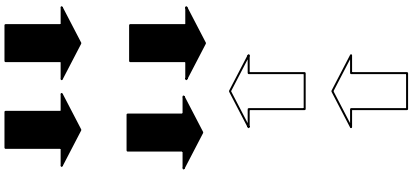
○ $\frac{2}{2}$

○ $\frac{1}{3}$

○ $\frac{1}{2}$

○ $\frac{2}{3}$

15. The shaded figures show which fractional number of the set of figures?



○ $\frac{2}{4}$

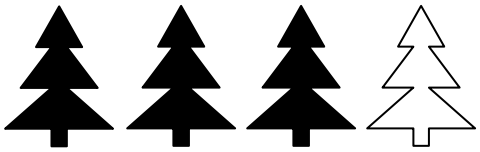
○ $\frac{2}{6}$

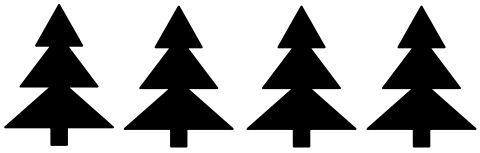
○ $\frac{4}{8}$

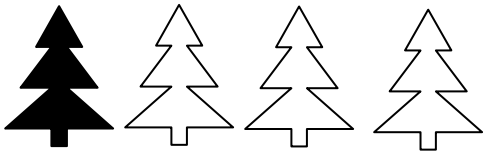
○ $\frac{4}{6}$

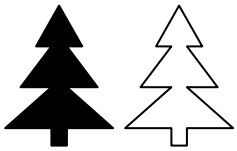
(2B)

16. In which group are $\frac{3}{4}$ of the trees shaded?

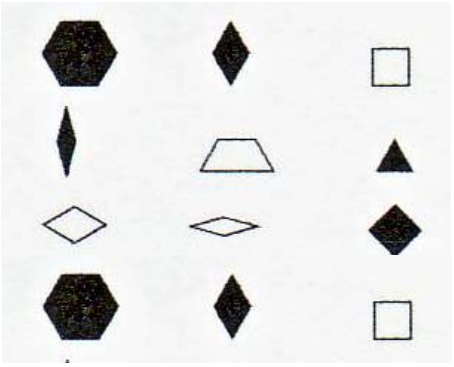
○ 

○ 

○ 

○ 

17. What fractional part of the set of objects is shaded?

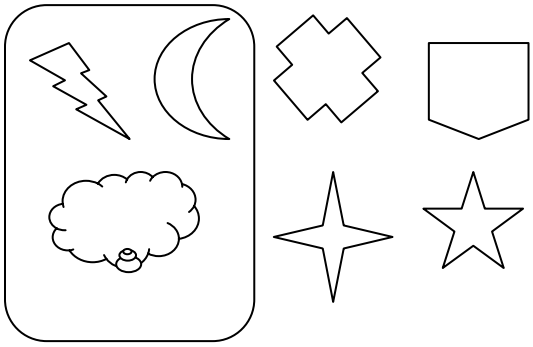


○ $\frac{7}{5}$ ○ $\frac{5}{7}$

○ $\frac{7}{12}$ ○ $\frac{5}{12}$

(2B)

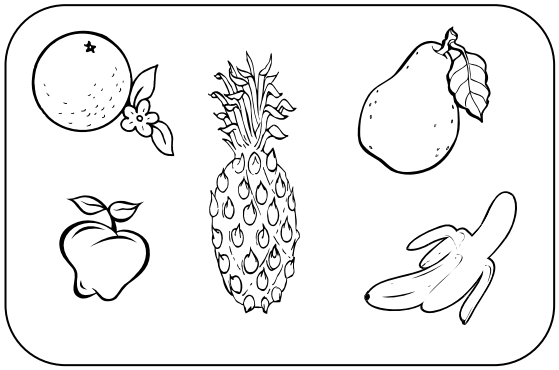
18. What fractional part of the set of objects is inside the ring?



$\frac{3}{4}$ $\frac{4}{7}$

$\frac{7}{3}$ $\frac{3}{7}$

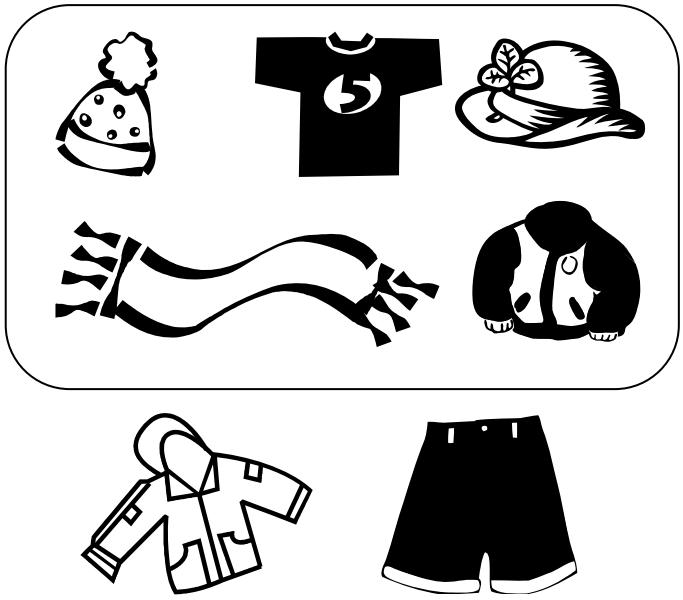
19. What fraction of the set of figures is inside the ring?



$\frac{5}{10}$ $\frac{5}{5}$

$\frac{1}{2}$ $\frac{1}{5}$

(2B)



20. What fractional part of the set of objects is inside the ring? Write the fraction in the space below.

21. What fractional part of the set of objects is **outside** the ring? Write the fraction in the space below.

The following items are intended for practice only of the 4th Generation CMT content and format, not for instruction of concepts. Much teaching must precede the use of these items to ensure children's success both in mathematics and on the CMT.

TOPIC 13: ANALYZING 3-D SHAPES

December 26, 2006

- 17B. Draw 2-dimensional geometric shapes and figures. PART 1
- 17A. Identify and recognize 2-dimensional geometric shapes and figures, including number of angles and sides of polygons. PART 1

TOPIC 13 – Extra Practice – Not related to Topic 13 in GWM

PART 2:

- 2A. Relate whole numbers to pictorial representations of base ten blocks and vice versa.
- 2B. Identify fractional parts of regions and sets using pictures and vice versa.

- 5C. Write story problems from addition or subtraction number sentences.

- 14A. Tell time to the nearest hour, half-hour and quarter hour using analog and digital clocks.
- 14B. Solve problems involving time, elapsed time (15 minute increments) and calendars.

- 15A. Estimate lengths and areas by comparing.

- 16A. Measure lengths to the nearest inch or centimeter.
- 16B. Draw lengths to the nearest inch or centimeter.

- 19A. Identify correct information from tables, bar graphs, pictographs and charts.

- 25A. Solve extended numerical and statistical problems.

Grade 3 CMT Geometry Vocabulary

Circle	Hexagon	Polygon
Figure	Line Segment	Rectangle
Grid	Parallelogram	Triangle

Grade 4 Scoring Rubric – 2nd Generation: Draw and Describe Geometric Figures
Equivalent to Grade 3 (4th Generation) CMT
STRAND 17

- *1 Point: The student draws a geometric figure as prompted.*
  - *~ Reasonable representation of the figure*
  - *~ Critical attributes of the figure present*
- *0 Points: The student does not indicate that he or she knows the critical attributes of the figure.*
  - *~ Figure incorrect*
  - *~ Drawing in which the figure is not obvious*

NOTE: The student may add to the drawing without being penalized. If the figure is recognizable in the drawing, the "embellishments" will be ignored.

Grade 2 (4th Generation) Scoring Rubric – Objective 17: Identify and draw simple geometric figures (circle, square, triangle, rectangle).
[There is no real Grade 2 CMT.]

1 Point: The student draws a geometric figure as prompted.
0 Points: The student does not indicate that he or she knows the critical attributes of the figure.

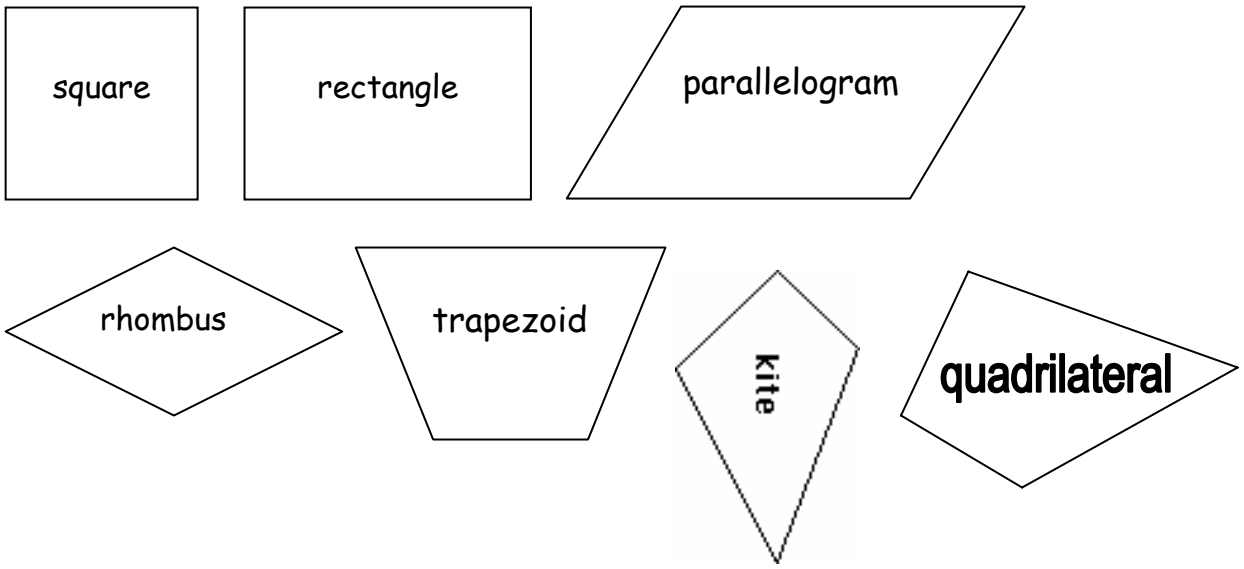
If the figure drawn approximates the geometric figure, it will be accepted.

- For example, a round, closed figure approximating a circle would be acceptable for a circle.

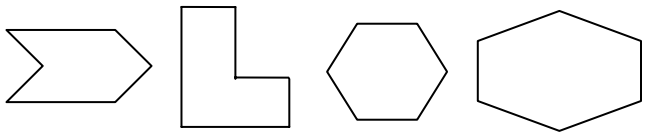
If a student is asked to draw a rectangle but draws a square instead, the square will be accepted. (A square is a special rectangle, but a rectangle is not a special square.)

Name_____Date_____Part 1 (17B)

1. Draw a closed shape with exactly 4 sides.



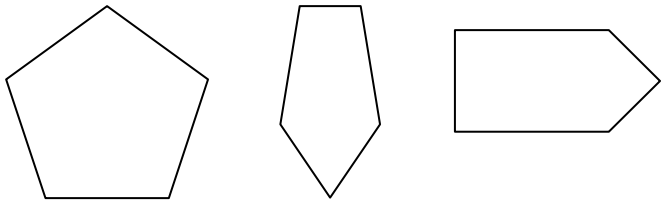
2. Draw a six-sided polygon.



4 Possible Answers

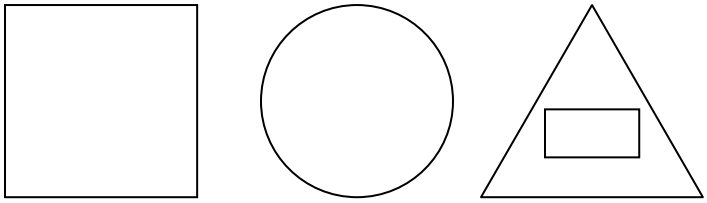
3. Draw a polygon with exactly 5 angles.

Possible Answers



(17B)

4. Draw a rectangle inside the triangle.



2 Points: The student correctly draws a rectangle inside the triangle.

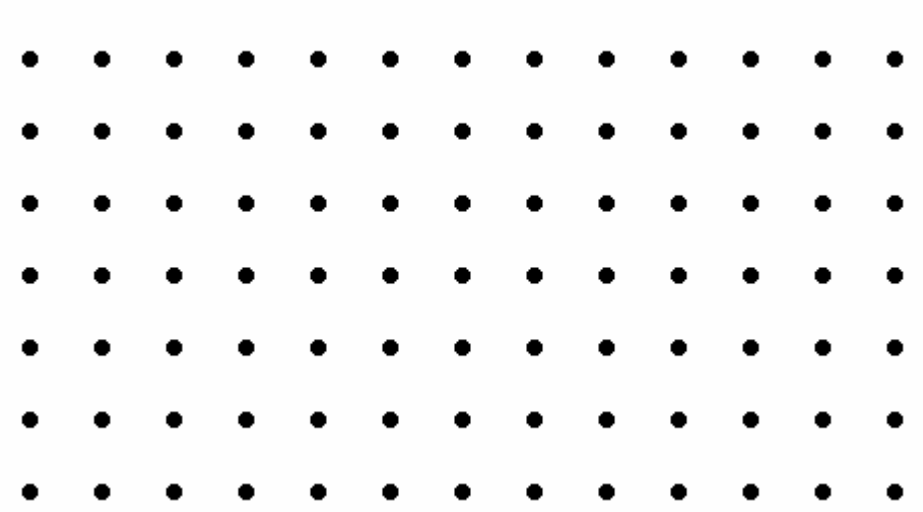
1 Point: The student draws a figure but incorrectly identifies either the rectangle or the triangle.

0 Points: The student does not draw a rectangle inside the triangle.

---

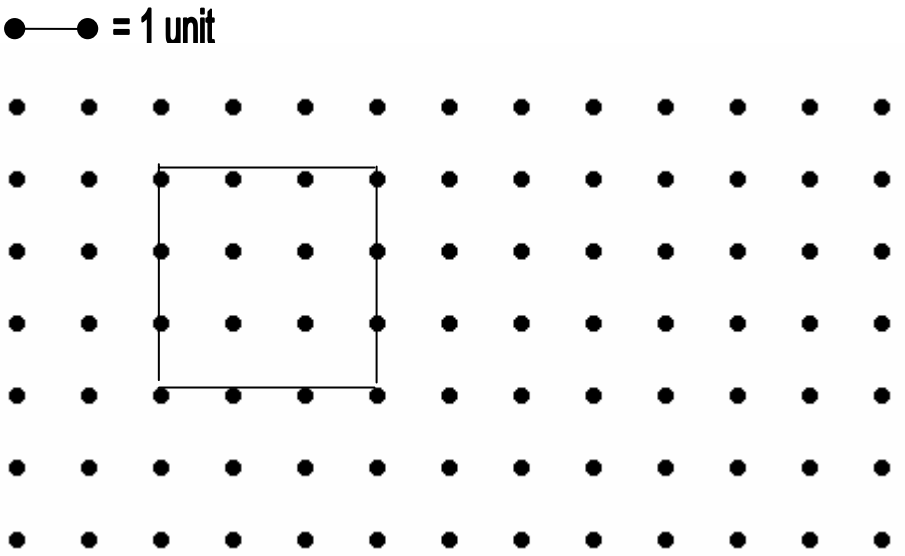
5. Draw a polygon by connecting dots on the grid.

Possible Answers:
- triangle
- quadrilateral
- trapezoid
- parallelogram
- rhombus
- square
- rectangle
- kite
- pentagon
- hexagon
- octagon



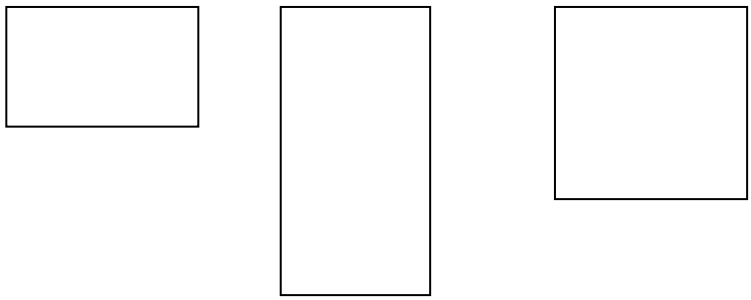
If dots aren't connected, score is 0 even if the shape drawn displays the critical attributes of the required shape.

6. Draw a square on the grid that is 3 units long on one side. (17B)



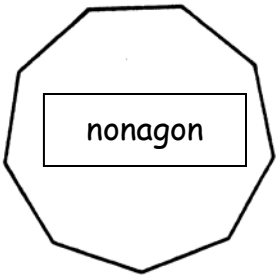
7. Draw a rectangle in the space.

Possible Answers

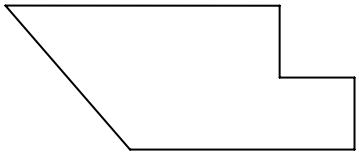


(17A)

8. How many angles does this shape have?



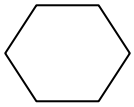
○ 10
○ 9 ***
○ 8
○ 7



9. How many sides does the figure have?

○ 5
○ 6 ***
○ 7
○ 8

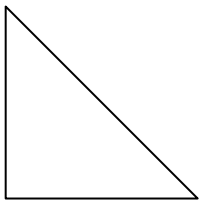
10. What is the name of the shape?

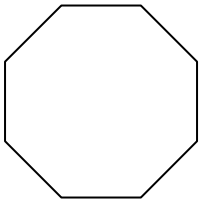


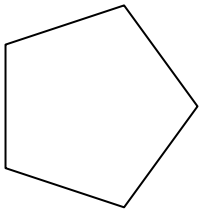
○ rectangle ○ hexagon***
○ parallelogram ○ triangle

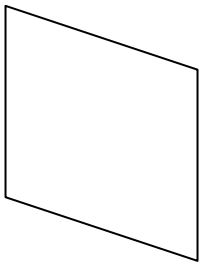
(17A)

11. Which shape is a parallelogram?

○ 

○ 

○ 

*** ○ 

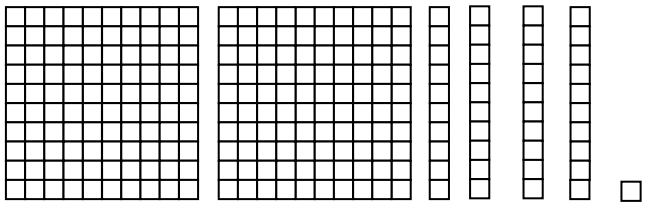
12. Which shape has exactly 3 sides?

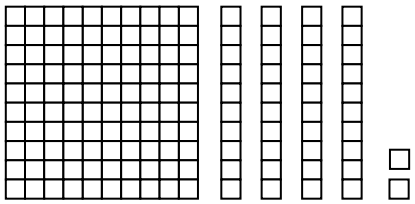
○ rectangle
○ hexagon
○ triangle ***
○ parallelogram

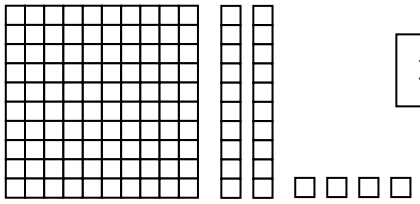
Name_____Date_____Part 2

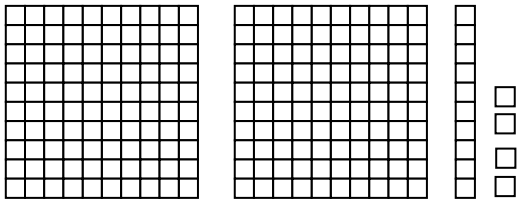
(2A)

1. Which picture shows 124?

○  241

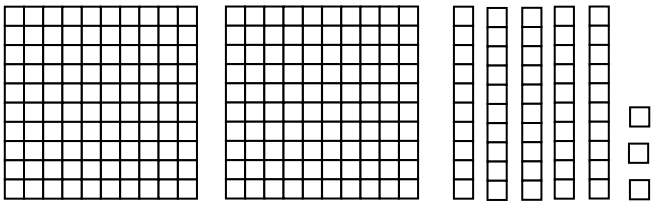
○  142

○  124 ***

○  214

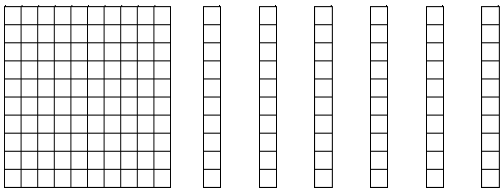
(2A)

2. Which number is shown by the blocks in this picture?



- ○ 325
- ○ 253 ***
- ○ 532
- ○ 235

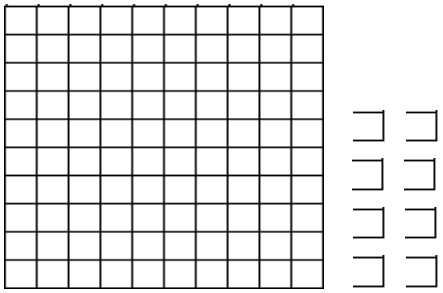
3. The blocks in the picture show which number?



- ○ 610
- ○ 601
- ○ 160 ***
- ○ 106

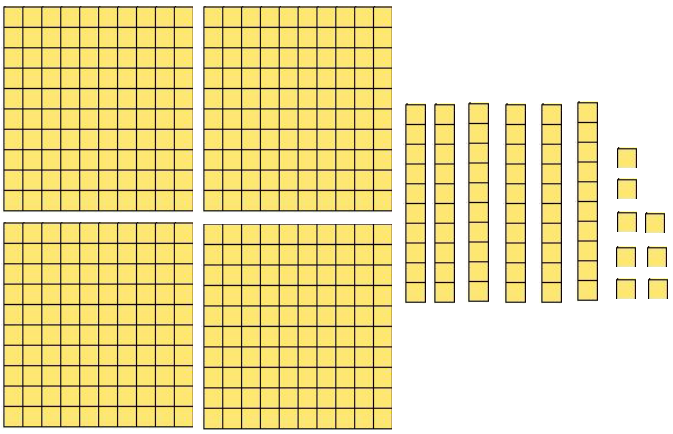
(2A)

4. What is the value of the blocks?



- ○ 108 ***
- ○ 180
- ○ 801
- ○ 810

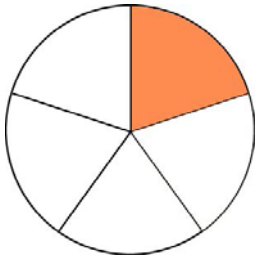
5. The blocks in the picture show which number?



- ○ 864
- ○ 648
- ○ 486
- ○ 468 ***

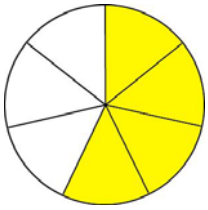
(2B)

6. What fractional part of the shape is shaded?



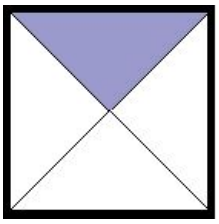
- ○ $\frac{1}{3}$
- ○ $\frac{1}{4}$
- ○ $\frac{1}{5}$ ***
- ○ $\frac{1}{6}$

7. The shaded part of this picture shows which fraction?



- ○ $\frac{3}{4}$
- ○ $\frac{3}{7}$
- ○ $\frac{4}{3}$
- ○ $\frac{4}{7}$ ***

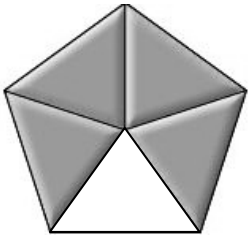
(2B)



8. How much of the shape is shaded?

- ○ $\frac{1}{3}$
- ○ $\frac{1}{4}$ ***
- ○ $\frac{3}{4}$
- ○ $\frac{4}{3}$

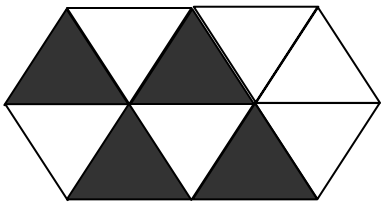
9. How much of the figure is shaded?



- ○ $\frac{1}{4}$
- ○ $\frac{4}{5}$ ***
- ○ $\frac{5}{4}$
- ○ $\frac{4}{1}$

(2B)

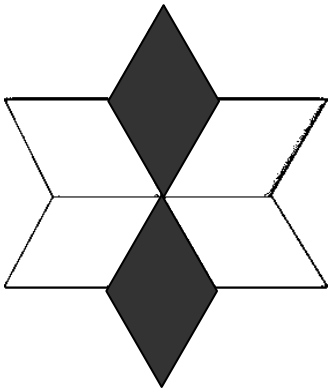
10. What fractional part of the shape is shaded?



- ○ $\frac{4}{10}$ ***
- ○ $\frac{6}{10}$
- ○ $\frac{4}{6}$
- ○ $\frac{6}{4}$

What is the name of the shape?

(Hexagon is a grade 3 CMT Vocabulary word)

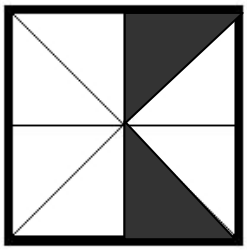


11. The shaded part of the figure shows which fraction?

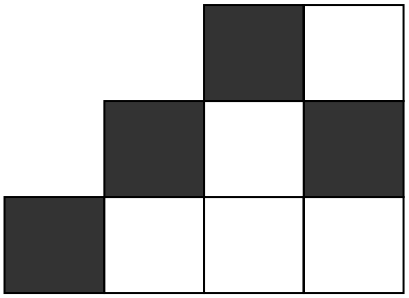
- ○ $\frac{2}{4}$
- ○ $\frac{4}{2}$
- ○ $\frac{2}{6}$ ***
- ○ $\frac{4}{6}$

(2B)

12. What fractional part of the figure is shaded?



- ○ $\frac{2}{6}$
- ○ $\frac{2}{8}$ ***
- ○ $\frac{6}{8}$
- ○ $\frac{2}{4}$



13. What fractional part of the figure is shaded?

- ○ $\frac{4}{5}$
- ○ $\frac{4}{9}$ ***
- ○ $\frac{5}{4}$
- ○ $\frac{5}{9}$

(2B)

14. What fractional part of the set of objects is shaded?

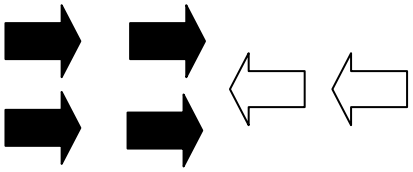
○ $\frac{2}{2}$

○ $\frac{1}{3}$

○ $\frac{1}{2}$ ***

○ $\frac{2}{3}$

15. The shaded figures show which fractional number of the set of figures?



○ $\frac{2}{4}$

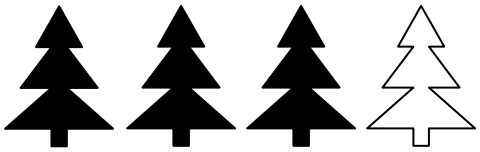
○ $\frac{2}{6}$

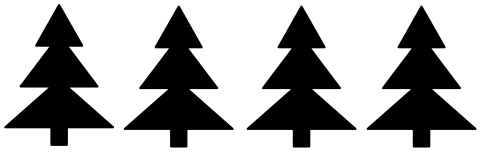
○ $\frac{4}{8}$

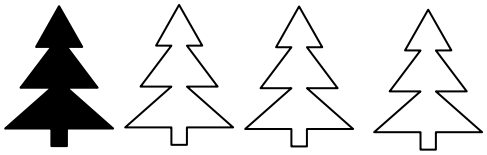
○ $\frac{4}{6}$ ***

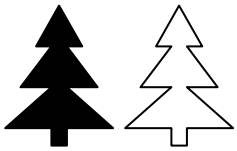
(2B)

16. In which group are $\frac{3}{4}$ of the trees shaded? (ANSWER: 1ST GROUP)

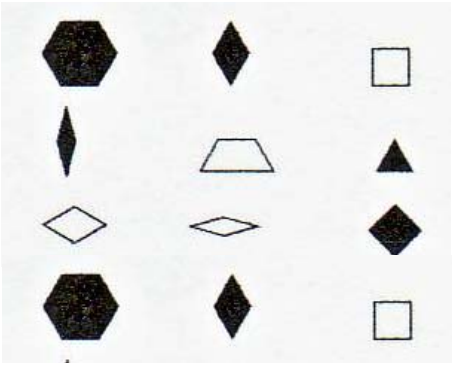
○ 

○ 

○ 

○ 

17. What fractional part of the set of objects is shaded?

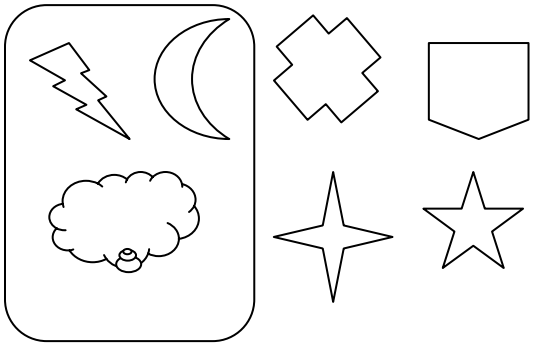


○ $\frac{7}{5}$ ○ $\frac{5}{7}$

○ $\frac{7}{12}$ *** ○ $\frac{5}{12}$

(2B)

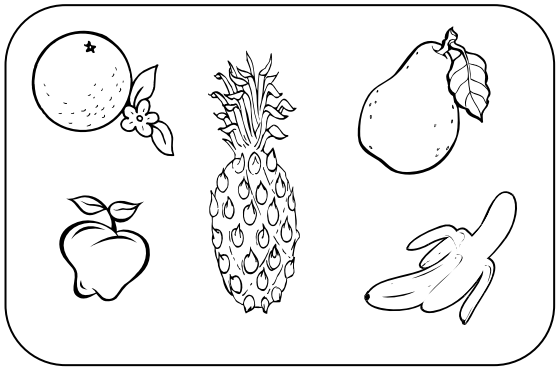
18. What fractional part of the set of objects is inside the ring?



$\frac{3}{4}$ $\frac{4}{7}$

$\frac{7}{3}$ $\frac{3}{7}$ ***

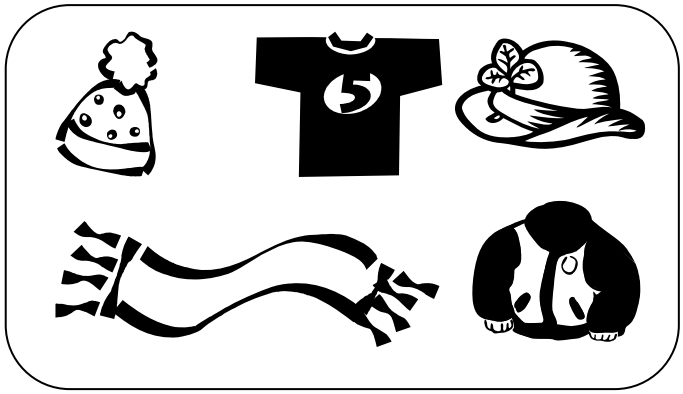
19. What fraction of the set of figures is inside the ring?

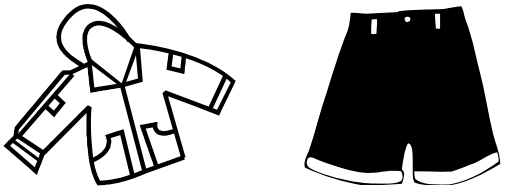


$\frac{5}{10}$ $\frac{5}{5}$ ***

$\frac{1}{2}$ $\frac{1}{5}$

(2B)





20. What fractional part of the set of objects is inside the ring? Write the fraction in the space below.

$\frac{5}{7}$

CMT does NOT ask for open-ended answers on the Grade 3 CMT – Obj. 2B.

21. What fractional part of the set of objects is **outside** the ring? Write the fraction in the space below.

$\frac{2}{7}$

CMT does NOT ask for open-ended answers on the Grade 3 CMT – Obj. 2B.