

MATH TEKS REVIEW

A COMPLETE 10+ DAY TEST PREP UNIT



MATH TEKS REVIEW INSTRUCTIONS AND IMPLEMENTATION

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The following items have been included in the Math STAAR Review pack.

TOPIC	STANDARDS	ACTIVITY
Numbers and Operations	7.2A, 7.3A, 7.3B	Task Cards
Proportional Relationships	7.4B, 7.4D, 7.4E	Scavenger Hunt
Proportionality and Similar Shapes	7.5A, 7.5B, 7.5C	He Said, She Said
Equations and Inequalities	7.10A, 7.10B, 7.10C, 7.11A, 7.11B	Puzzle
Linear Relationships	7.4A, 7.4C, 7.7A,	Four Corners
Personal Financial Literacy	7.13A, 7.13B, 7.13C, 7.13D, 7.13E, 7.13F	Stations
Probability	7.6A, 7.6C, 7.6D, 7.6E, 7.6H, 7.6I	Spin to 10
2D Geometry	7.9B, 7.9C, 7.11C	Scavenger Hunt
Volume and Surface Area	7.9A, 7.9D	Cut and Paste
Data and Statistics	7.6G, 7.12A, 7.12B, 7.12C	Find It, Fix It

Additionally, the same content has been formatted for easier printing by placing all of the like materials in one file. For example, all of the quizzes together, all of the activities together, all of the warm-ups together, etc.

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ORGANIZED BY TOPIC AND INCLUDES ALL TESTED
GRADE LEVEL TEKS.

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2D GEOMETRY TEACHER GUIDE

STANDARDS

READINESS

7.9B Determine the circumference and area of circles

7.9C Determine the area and composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles

SUPPORTING

7.11C Write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships

VOCABULARY & KEYWORDS

- area: the size of a two-dimensional surface
- circumference: the distance around a circle
- complementary angles: two angles which have a sum of 90°
- composite figure: a figure that can be divided into two or more basic shapes
- diameter: the distance from one endpoint to another that passes through the center of a circle
- equilateral triangle: a triangle with three equal side lengths and equal angles
- isosceles triangle: a triangle with two equal side lengths and two equal angles
- radius: the distance from the center of the circle to a point on the circle
- supplementary angles: two angles which have a sum of 180°

COMMON MISTAKES & MISCONCEPTIONS

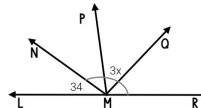
- Students may use the wrong formula, encourage them and have them practice with a chart.
- Students may make computation errors when multiplying by pi.
- Students may not complete a multi-step problem that the question is asking.

EACH TOPIC INCLUDES
A TEACHER GUIDE AND
WARM-UP.

2D GEOMETRY WARM-UP

Name _____
Date _____ Pd _____

1. Angle LMN and angle NMR are supplementary angles. What is the value of x in the diagram below?



2. A square is inscribed within a circle with a radius of 6 cm. What is the area of the shaded portion of the figure below?

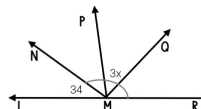


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2D GEOMETRY WARM-UP

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1. Angle LMN and angle NMR are supplementary angles. What is the value of x in the diagram below?



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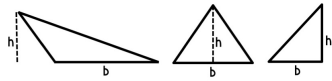


2D GEOMETRY CHEAT SHEET - A

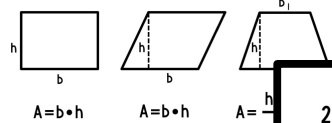
Name _____
Date _____ Pd _____

POLYGONS

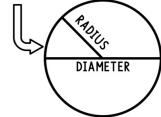
AREA OF A TRIANGLE = $\frac{b \cdot h}{2}$



QUADRILATERALS



CIRCUMFERENCE



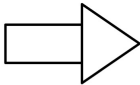
$C = \pi d$ $A = \pi r^2$

The AREA of a SEMICIRCLE can be found by DIVIDING THE AREA of the

CIRCLES

GRAPHICALLY ENGAGING
CHEAT SHEET WITH KEY
CONCEPTS.

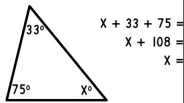
COMPOSITE FIGURE: a figure that can be broken down into basic shapes.



Find the AREA of the various shapes.

angle relationships

The THREE ANGLES in a triangle have a SUM OF 180°

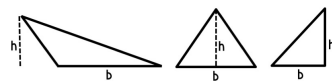


2D GEOMETRY CHEAT SHEET - B

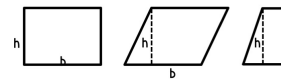
Name _____
Date _____ Pd _____

POLYGONS

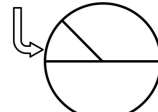
TRIANGLES



QUADRILATERALS



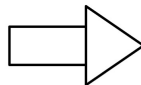
CIRCLES



$C = \pi d$ $A = \pi r^2$

THREE
SCAFFOLDED
VERSIONS.

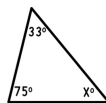
COMPOSITE FIGURE: a figure that can be broken down into basic shapes.



Find the _____ of the various shapes.

angle relationships

The _____ in a triangle have a _____



2D GEOMETRY CHEAT SHEET - C

Name _____
Date _____ Pd _____

POLYGONS

CIRCLES

composite figures

angle relationships

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2D GEOMETRY QUICK CHECK

Name _____
Date _____ Pd _____

1. In PE a parachute is laid out on the gym floor. The parachute has a radius of 16 feet. Which measurement is closest to the circumference of the parachute in feet?

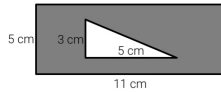
- A. 100.48 ft² B. 198.4 ft² C. 49.6 ft² D. 803.84 ft²

2. A coffee shop sign is in the shape of a circle. The sign measures 18 inches across in diameter. Which measurement is closest to the area of the sign in square inches?



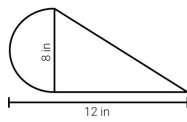
- F. 56.52 in² G. 101.36 in² H. 188.78 in² J. 254.34 in²

3. A triangle is inscribed in a rectangle, as shown below. What is the area of the shaded region?



- A. 40 cm² C. 47.5 cm²
B. 62.5 cm² D. 22.75 cm²

4. Using various puzzle pieces, Marco forms the figure below. What is the best estimate of the area of the figure?



- F. 146.24 in² G. 76.82 in² H. 98.24 in²

1. (A) (B) (C) (D)
2. (F) (G) (H) (J)
3. (A) (B) (C) (D)
4. (F) (G) (H) (J)
5. (A) (B) (C) (D)
6. (F) (G) (H) (J)
7. (A) (B) (C) (D)
8. (F) (G) (H) (J)
9. (A) (B) (C) (D)
10. Use the grid below.

+	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@	@
-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

MINI ASSESSMENTS
WITH 8-10
QUESTIONS EACH.

2D GEOMETRY ANSWER KEYS

ALL ANSWER KEYS
INCLUDED.

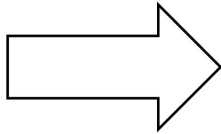
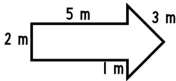
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CARD 3:

The original figure is dilated by a scale factor of 2.5. What is the perimeter of the new figure?



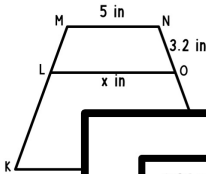
Charlie says that the perimeter of the new figure is 50 meters.

Card
perim
figur

ONE EASY-TO-PREP
CLASS ACTIVITY PER
TOPIC.

CARD 4:

Trapezoid LMNO is similar to trapezoid KLOP. What is the length of \overline{LO} ?



Dar
len

Dak

EQUATIONS AND INEQUALITIES PUZZLE

Name _____
Date _____ Pd _____

RECORDING SHEET

Assemble all of the puzzle pieces so that the problem and solution match. Once you have a 4 by 4 grid, paste it below.

$x = 14$ $8 = x$ G	$-9x + 8 > 62$ $3 = x$ C	$2x + 6 < 7$ $5 \cdot 0 > x$ N	$x = -2$ $8x + 6 \geq 46$ H
$6x + 9 < 27$ $9 > x$ E	$10x - 6 = 46$ $x = -9.5$ V	$4x + 18 = 6$ $x > 9$ Q	$4 \geq x$ $8x - 2 > 25$ A
$9x + 3 < -4$ $-3x + 3 = 42$ X	$10x + 2 > 4$ $8x - 12 \geq 4$ K	$3x - 10 = 5$ $11 = 17$ J	$2 > 52$ -2 I

SOLVE.

$$-10.6 - 4.8 =$$

1 3

SOLVE.

$$\frac{1}{2} - \frac{2}{3} =$$

1 4

The stock market rose and fell over a period of five days:
9.8, -3.5, 20.5, 8.6, -7.7
Overall what was the net change in the market?

1 5

Annabelle ran $6\frac{3}{4}$ miles. Missy ran $3\frac{1}{2}$ miles less than Annabelle. How many miles did Missy run?

1 6