Name: _____ Date: _____ Row: _____ Period: ____ Assignment #: ____

****YOU MUST SHOW WORK****

FACEing MATH™

Lesson 6:

Directions: *Find the correct answer and use a pencil to DRAW the object that corresponds to your answer.*

1. Find the x-intercept
$4x-5y=20$

(a) If your answer is x-int: 5 draw the following bandana on the head.

(b) If your answer is x-int: 4 draw the following bandana on the head.

2. Find the y-intercept
$4x-5y=20$

(a) If your answer is y-int: -4 draw the following nose and mouth.

(b) If your answer is y-int: 4 draw the following nose and mouth.

3. What type of a line has a slope of zero?

(a) If your answer is vertical draw an X where one eye should be.

(b) If your answer is ⟷ draw an eye patch where one eye should be.

4. What type of line has an undefined slope?

(a) If your answer is ⟷ draw the following eye.

(b) If your answer is vertical draw the following eye.

5. Does the following represent a function?
(1,2), (2,3), (3,4), (5,7), (1,8)

(a) If your answer is yes draw the following chin.

(b) If your answer is no draw the following chin.

6. If line 1 has a slope of -3 and line 2 has a slope of $\frac{1}{2}$ which is steeper?

(a) If your answer is line 1 draw a parrot sitting on one shoulder.

(b) If your answer is line 2 draw a snake sitting on one shoulder.

7. If a line has a slope of -2 what is the slope of a perpendicular line?

(a) If your answer is $\frac{1}{2}$ draw long, messy hair that covers the ear area.

(b) If your answer is $-\frac{1}{2}$ draw short, straight hair that covers the ear area.

8. If a line has a slope of -2 what is the slope of a parallel line?

(a) If your answer is $\frac{1}{2}$ draw a sword on the shirt.

(b) If your answer is -2 draw skull and crossbones on the shirt.

9. Find the slope
$4x-2y=12$

(a) If your answer is 2 draw horizontal stripes on the shirt.

(b) If your answer is -2 draw vertical stripes on the shirt.

10. Find the slope of the line that passes through $(-2,-3)$ and $(-4,-3)$

(a) If your answer is 0 draw a scar under the eye and on one arm.

(b) If your answer is undefined draw a scar on the nose and neck.

11. Find the slope of the line that passes through $(-1,-2)$ and $(4,-1)$

(a) If your answer is 5 draw a ship with an X on one mast.

(b) If your answer is $\frac{1}{5}$ draw a treasure map with an X to mark the spot.

12. Is $f(x)=x^2+5$ a linear function?

(a) If your answer is yes write the term "Yo-ho-ho" in the background.

(b) If your answer is no write the term "Arrr!" in the background.

Directions: *Find the correct answer and COLOR the object that corresponds to your answer.*

13. If $f(x)=x^2-2x$ find $f(-3)$.

(a) If your answer is -3 color the bandana purple with orange patches.

(b) If your answer is 15 color the bandana red with yellow patches.

14. Is $f(x)=x-5$ a linear function?

(a) If your answer is yes color the mustache brown.

(b) If your answer is no color the mustache black.

15. If the slope of a line is _____ then it rises from left to right.

(a) If your answer is positive color the eye patch black.

(b) If your answer is negative color the eye patch brown.

16. If the slope of a line is _____ then it falls from left to right.

(a) If your answer is pos. outline the eye, nose, and chin in brown.

(b) If your answer is neg. outline the eye, nose, and chin in black.

17. Write $-5x-y=2$ in slope-intercept form

(a) If your answer is $y=-5x-2$ outline the mouth in red.

(b) If your answer is $y=5x-2$ outline the mouth in black.

18. Does the graph of a circle pass the vertical line test?

(a) If your answer is yes outline both scars in red.

(b) If your answer is no outline both scars in black.

19. True or False:
Slope represents run over rise.

(a) If your answer is true color the nose, face, neck, and arms tan.

(b) If your answer is false color the nose, face, neck, and arms orange.

20. When graphing using slope-intercept form which axis do you plot the first point on?

(a) If your answer is y-axis color the animal multiple colors.

(b) If your answer is x-axis color the animal only one color.

21. True or False:
Horizontal and vertical lines are perpendicular.

(a) If your answer is false color the object on the shirt green.

(b) If your answer is true color the object on the shirt gray.

22. What kind of line is $x=5$?

(a) If your answer is vert. color the shirt stripes blue and white.

(b) If your answer is ⟷ color the shirt stripes red and yellow.

23. What kind of line is $y=-\frac{3}{2}$?

(a) If your answer is vertical color the hair black.

(b) If your answer is horizontal color the hair brown.

24. True or False:
We read a graph from right to left.

(a) If your answer is false outline the letters in black.

(b) If your answer is true outline the letters in red.

25. What form is
$5x-2y=23$?

(a) If your answer is Standard color the X red.

(b) If your answer is Slope-int color the X black.

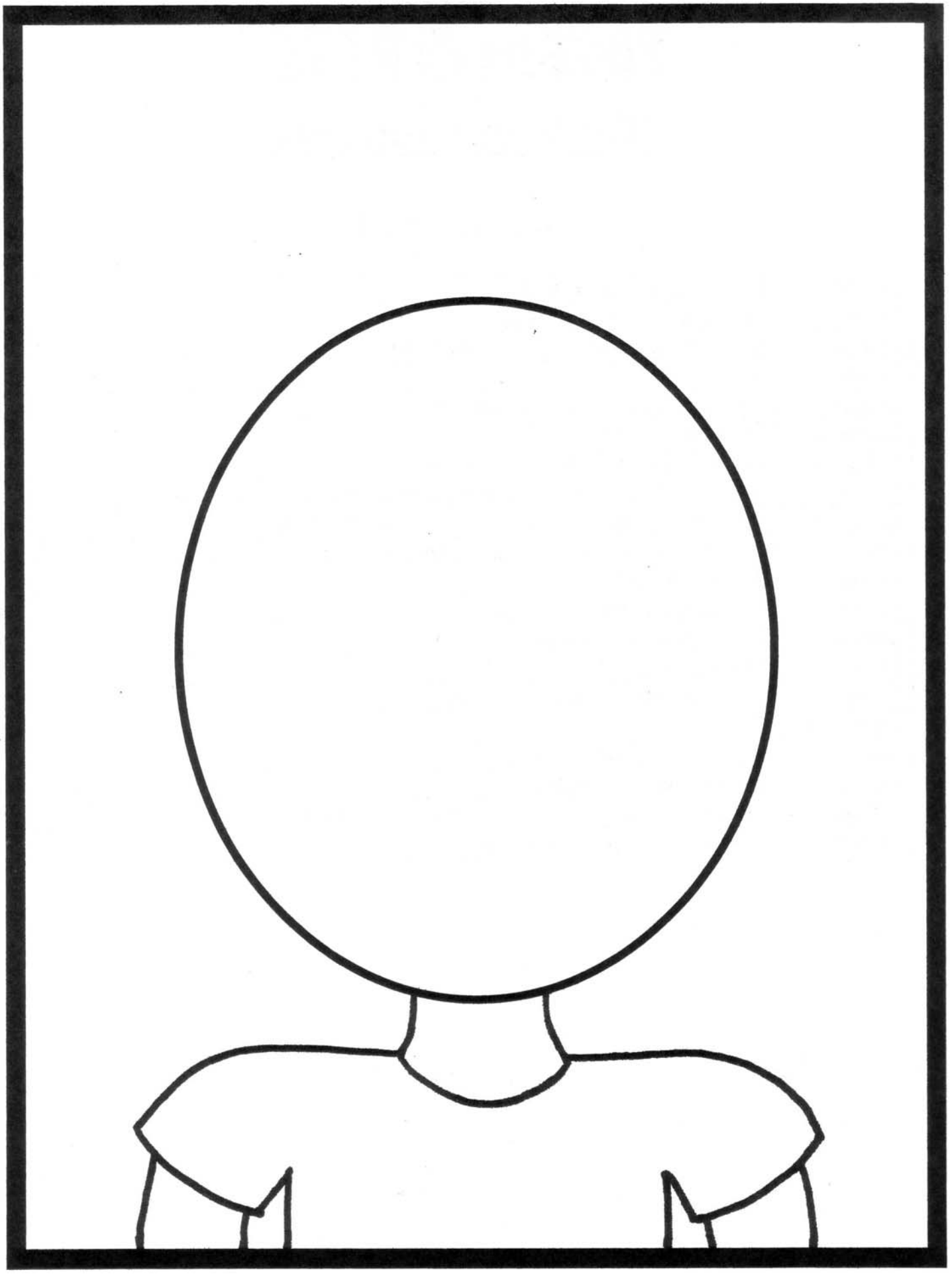
26. What color is Mrs. Scott's Angels Bat?

(a) If your answer is red do not color the rest of the "X" object.

(b) If your answer is pink color the rest of the "X" object as you wish.

27. What animals surround the clock on Mrs. Scott's wall?

(a) If your answer is monkeys color the background purple.

(b) If your answer is elephants color the background blue.

Artistic Tip: **When you are done coloring, it looks nice to outline the major features using a black crayon or marker.**