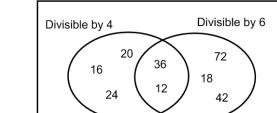
## **Grade 7 Math Practice Midterm**

- 1. Which number is divisible by both 6 and 9?
  - a. 115
- b. 342
- c. 513
- d. 615
- 2. What is the correct estimate of 3.1 + 4.8 if you are using *front-end* estimation?
  - a. 7
- b. 7.8
- c. 8

- d. 8.7
- 3. Which two numbers are in the wrong location in the Venn Diagram?



- a. 12 and 36
- b. 24 and 72
- c. 16 and 18
- d. 20 and 42
- 4. A large party pizza has 24 slices. How many friends would you invite to *join* you, if you wanted to share *two* large pizzas equally?
  - a. 7
- b. 8

c. 9

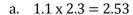
d. 1

- 5. Which fraction is equal to 0.25?
  - a.  $\frac{1}{2}$

b.  $\frac{2}{4}$ 

c.  $\frac{25}{10}$ 

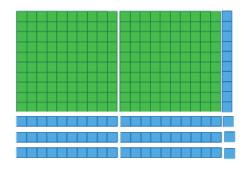
- d.  $\frac{25}{99}$
- 6. Which multiplication equation is represented by the diagram?



b. 
$$2.3 \times 1.1 = 2.53$$

c. 
$$1.3 \times 2.1 = 2.37$$

d.  $2.1 \times 1.3 = 2.73$ 



7. Which sum does this set of tiles model?

a. 
$$(-6) + (+3) = -9$$

b. 
$$(-6) + (+3) = -3$$

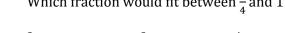
c. 
$$(-6) + (+3) = +3$$

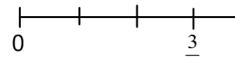
d. 
$$(-6) + (+3) = +9$$





8. Which fraction would lit between - and 1	8.	Which fraction would fit between $\frac{3}{4}$ and 1	hi	ich	h	ı 1	f	f	f	f	f	i	r	ć	a	(	2	t	i	(	)	r	1		١	٨	ν	,	(	)	ι	ı	l	(	ł		f	i '	t	1	b	) (	9	t	V	V	e	•	91	n		3	6	<b>a</b> 1	n	d		1	L	?	,
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a. 
$$\frac{2}{5}$$

c.  $\frac{4}{5}$ 

d.  $\frac{6}{5}$ 

9. What is the best estimate for the circumference of a circle with a radius of 6 cm?

2	-
a.	·

6 b. 18

c. 27

d. 36

10. Which relation produces the data in the table?

2	$2\mathbf{y}$

b. 2x + 3

c. 3x - 2

d. 4x - 4

Term #	1	2	3	4	5
Term	1	4	7	10	13

11. At the year-end soccer party, each player received two hotdogs and there were 4 hotdogs left over. What an algebraic expression that would represent the total number of hotdogs at the party?

a. 
$$p + 2$$

b. 
$$2p + 2$$

c. 
$$2p + 4$$

d. 
$$4p + 2$$

12. What expression represents the phrase, "six less than double a number?"

a. 
$$\frac{n}{2} - 6$$

13. What is the value of 4k + 7 when k = 4?

- a. 15
- b. 23
- c. 37

d. 51

14. Lex earns \$2 for *each* box of catalogues he delivers and gets another \$12 for delivering flyers. If he receives a total of \$36 for his pay, which equation allows you to determine how many boxes he delivered?

a. 
$$2B + 12 = 36$$

c. 
$$12B + 2 = 36$$

b. 
$$b. 2B - 36 = 12$$

d. 
$$12B - 36 = 2$$

15. Which ordered list represents the output values for the table below?

- a. 0, 1, 2, 3
- b. 4, 9, 14, 19
- c. 5, 4, 3, 2
- d. 5, 10, 15, 20

Input	Output
n	5n - 1
1	
2	
3	
4	

16. A pack of pencils cost \$1.99. Sales tax is 13%. How much tax is added to the cost of the pencils?

- a. \$0.13
- b. \$0.26
- c. \$0.39
- d. \$0.93

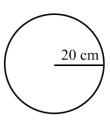
17.		What is the so	olution to 4.2 x 3	$.0 + 4.2 \div 2.1?$		
	a.	8	b. 14.6	c. 16.8	d. 18	
18.	a.	If the radius o	of a circle is 4cm, b. 2 cm			12.56 cm
19.		What is the ci	rcumference of a		diameter 1 c. 78.5 cn	
20.	a.	What would b	oe a correct estin b. 24 m²	nate for the are		with diameter 8m? d. 192 m²
21.	a. b. c. d.	What is the ar 5 cm <sup>2</sup> 32 cm <sup>2</sup> 40 cm <sup>2</sup> 120 cm <sup>2</sup>	rea of the given p	oarallelogram?	5 cm/	4 cm
22.		If a circle has	a circumference	of 20 cm, what	is its area?	
		a. 6.4 cm	b. 10 cm	c. 12 cm	d. 32 cm	
23.		What is the ar	rea of the circle v	with diameter 2	?2cm?	
	a.	34.54 cm <sup>2</sup>	b. 69.08 cm <sup>2</sup>	c. 379.94 cm <sup>2</sup>	d. 1519.7	'6 cm <sup>2</sup>
24.		If a parallelog	ram has an area	of 64 cm <sup>2</sup> and	height 4 cm	, what is its length?
	a.	16 cm	b. 68 cm	c. 136 cm	d. 256 cm	1
25.		What is the ar	ea of the follow	ing triangle?	5cm /	<b>F</b> =
	a.	7.5 cm <sup>2</sup>				5cm
	b.	12 cm <sup>2</sup>			/ 3 cm	1

----- 8 cm -

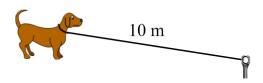
c. 18 cm<sup>2</sup>
d. 24 cm<sup>2</sup>

## Constructed Response. Answer all questions in the space provided.

1. Bobby buys a pizza with a radius of 20 cm. If he cuts it into 8 equal pieces, what is the area of each slice?



- 2. A dog is leashed on a chain that is 10 m long connected to a peg in the ground. The owner wants to build a circular fence around the dog that has a radius 1 m longer than the leash.
  - A. What is the length of the fence?



B. What is the area of grass between the fence and the end of the leash?

- 3. Sketch algebra tiles to solve each equation.
- A) x + 4 = 12

B) 3m + 2 = 11

- 4. Marcus bought 4 CDs for \$6 each and sold 5 CDs for \$5 each.
  - A) Write an equation to find Marcus' overall earnings or losses.
  - B) Solve the equation. State your final answer.

5. Sam took \$120 to the mall to buy hair products. She wants to purchase shampoo for \$7, hair spray for \$12, styling products for \$25, and a curling iron for \$45. Sales tax is 13%.

Does Sam have enough money to buy all the hair products? Support your answer with workings.

6. Evaluate:

A. 
$$(-2) - (-5)$$
 (model)

B. 
$$(-3) + (-7)$$
 (model)

$$C.5 - 12$$

$$D.(-3)-(-4)+(-5)$$

A. 
$$1.2 \times 3.2$$
 (model)

B. 
$$5.4 \div 0.9$$

$$C. 4.5 - 2.37$$

$$D. 3.1 + 0.8 + 4.25$$

8. Evaluate: 
$$3.2 + 1.4 \times 0.2 - 2.1 \div 0.7$$

9. Place in the correct order: 
$$3.1, 3.01, 3.\overline{1}, 3\frac{1}{4}$$

- 10. Of the 450 students in Grade 7 and 8, 45% like the colour purple. How many like purple?
- 11. Johnny had 16 out of 23 marks on his Math test. What percent did he get?