

4th Grade Math Packet

June 2017

Dear Students and Parents,

Attached you will find the Fourth Grade Summer Math Packet. Please have your child complete the packet and return it to his or her math teacher on the first day of school as this is a graded assignment. There will be a 10 point deduction each day the assignment is missing. If you happen to misplace the packet, please call the school and pick up a second copy.

In addition to this packet, we feel that it is important that your child also know the following information:

1. Addition and subtraction facts through 18 (memorized)
2. Multiplication facts through 12 (memorized)
3. Telling time

We look forward to a great year!

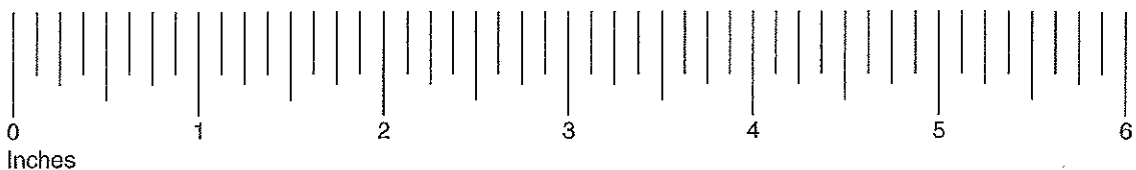
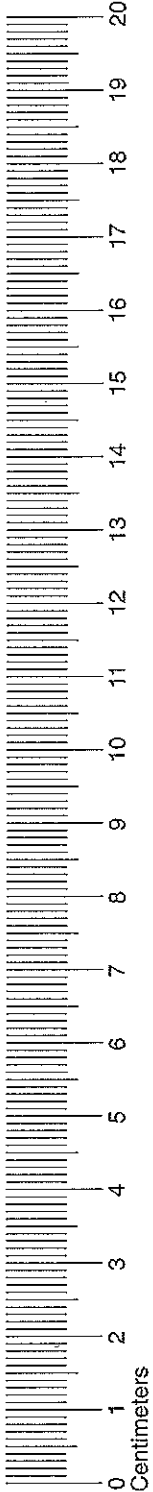
The Fourth Grade Teachers

Name _____

4th gr. HR teacher _____

Mathematics Chart

LENGTH		TIME	
Metric		1 year = 365 days	
1 meter = 100 centimeters		1 year = 12 months	
1 centimeter = 10 millimeters		1 year = 52 weeks	
Customary		1 week = 7 days	
1 yard = 3 feet		1 day = 24 hours	
1 foot = 12 inches		1 hour = 60 minutes	
		1 minute = 60 seconds	
Perimeter		Area	
square	$P = 4s$	rectangle	$A = \ell w$ or
rectangle	$P = 2\ell + 2w$ or		$A = bh$
	$P = 2(\ell + w)$		



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**Diagnostic and
Placement
Grade 4**

Name _____
Date _____

This test contains 30 multiple-choice questions. Work each problem in the space on this page. Select the best answer. Write the letter of the answer on the blank at the right.

1 Which set of numbers is in order from least to greatest? **1** _____

- A** 4324, 4432, 4243, 4234 **C** 4243, 4234, 4324, 4432
B 4432, 4324, 4243, 4234 **D** 4234, 4243, 4324, 4432

2 To enter a dog show, Tehya must weigh her Great Dane and record his weight rounded to the nearest ten pounds. Tehya's Great Dane weighs 123 pounds. Which weight should Tehya record for the dog show? **2** _____

- F** 100 pounds **H** 125 pounds
G 120 pounds **J** 130 pounds

3 Find the unknown. **3** _____

$458 \times 7 = x$

- A** 465 **C** 3,204
B 2,856 **D** 3,206

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4 Which symbol makes the number sentence
27,543 27,343 true?

4 _____

F > G < H = J +

5 Find the unknown.

5 _____

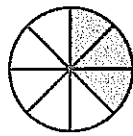
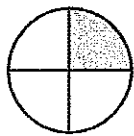
$$328 \div 6 = y$$

A 54 R4
B 54 R2

C 56
D 56 R4

6 Marley makes an apple pie and a blueberry pie to serve at Thanksgiving dinner. After dessert, she notices that $\frac{3}{8}$ of the apple pie remains and $\frac{1}{4}$ of the blueberry pie remains. Which statement is TRUE concerning Marley's observation?

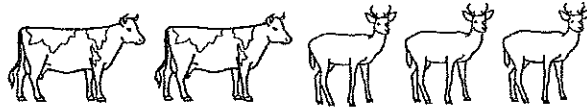
6 _____



- F More apple pie remained than blueberry pie because $\frac{3}{8} > \frac{1}{4}$.
- G More blueberry pie remained than apple pie because $\frac{3}{8} > \frac{1}{4}$.
- H More apple pie was eaten than blueberry pie because $\frac{3}{8} < \frac{1}{4}$.
- J Both pies had the same amount remaining because $\frac{3}{8} = \frac{1}{4}$.

7 What fraction is not equivalent to the fraction of cows in the group of animals?

7 _____

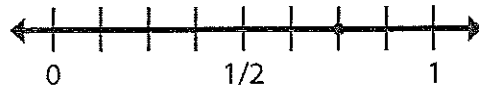


- A $\frac{2}{5}$
 B $\frac{4}{10}$

- C $\frac{6}{15}$
 D $\frac{4}{5}$

8 Identify a fraction equivalent to the fraction shown on the number line.

8 _____



- F $\frac{1}{3}$
 G $\frac{4}{6}$

- H $\frac{3}{4}$
 J $\frac{7}{8}$

9 Which of the following numbers is the greatest?

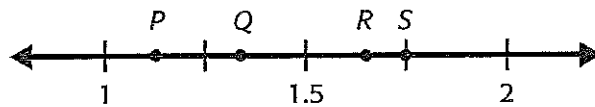
9 _____

- A 11.6
 B 2.09

- C 4.63
 D 1.17

10 Which point could represent 1.65?

10 _____



- F Point P G Point Q H Point R J Point S

11 On Field Day, Camille hopped on one foot around $\frac{2}{5}$ of the track. Payton hopped on one foot around $\frac{1}{5}$ of the track. Together, how far did they hop around the track on one foot?

A $\frac{1}{5}$

B $\frac{2}{5}$

C $\frac{3}{5}$

D $\frac{4}{5}$

11 _____

12 Which of the following number sentences is true about $\frac{8}{5}$?

F $\frac{1}{8} + \frac{1}{5} = \frac{8}{5}$

H $\frac{1}{5} \times \frac{1}{8} = \frac{8}{5}$

G $5 \times \frac{1}{8} = \frac{8}{5}$

J $8 \times \frac{1}{5} = \frac{8}{5}$

12 _____

13 Jordan buys twenty-four gumballs at the candy store. On the way home, he chews six gumballs and gives three to his sister. How many gumballs does Jordan have left when he gets home?

A 13

B 14

C 15

D 16

13 _____

14 Which signs go in the boxes to make the number sentence true?

$$42 \square 7 \square 5 = 11$$

F $\div; +$

G $-; +$

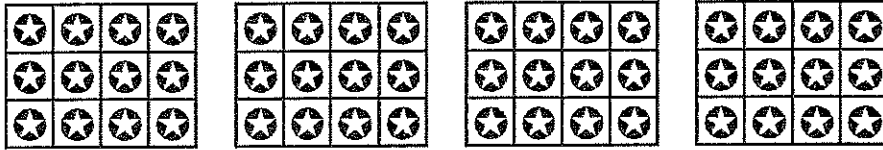
H $\div; \times$

J $-; \times$

14 _____

- 15** Drew owns 4 sheets of stickers. Each sheet has 12 stickers. Which number sentence does not show how to find the total number of stickers Drew owns?

15 _____



- A** $12 + 4 = \square$ **C** $12 \times 4 = \square$
B $12 + 12 + 12 + 12 = \square$ **D** $4 \times 12 = \square$

- 16** Heather and Matt both collect rocks. Heather says that she has thirty-two rocks in her collection. Matt says that he has three times as many rocks as Heather does. Which number sentence could Heather use to find the number of rocks in Matt's collection?

16 _____

- F** $32 + 3$ **H** 32×3
G $32 - 3$ **J** $32 \div 3$

- 17** The table below shows the number of crayons in each box. If every box has the same number of crayons, how many crayons will be in 8 boxes?

17 _____

Number of Boxes	Number of Crayons
1	8
2	16
3	24

- A** 8 **B** 32 **C** 64 **D** 72

18 A line of ants is moving across Denise's picnic blanket. She counts 6 legs on the first ant, 12 legs on the first two ants, and 18 legs on the first three ants. If Denise continues to count, how many legs will she count on the first 12 ants?

18 _____



- F** 24 legs **G** 56 legs **H** 60 legs **J** 72 legs

19 Which factor pair does not belong to 36?

19 _____

- A** 1, 36 **C** 6, 6
B 2, 12 **D** 4, 9

20 Hector saves \$5.00 of his allowance every week. After 12 weeks he has \$60.00 saved. Which table could he use to show the amount of money he will save after 20 weeks?

20 _____

F

Week	Money Saved
15	\$65.00
16	\$70.00
17	\$75.00
18	\$80.00
19	\$85.00
20	\$90.00

H

Week	Money Saved
15	\$75.00
16	\$80.00
17	\$85.00
18	\$90.00
19	\$95.00
20	\$100.00

G

Week	Money Saved
15	\$70.00
16	\$75.00
17	\$80.00
18	\$85.00
19	\$90.00
20	\$95.00

J

Week	Money Saved
15	\$80.00
16	\$85.00
17	\$90.00
18	\$95.00
19	\$100.00
20	\$105.00

- 21** Bianca is building a tower with wooden blocks. She counts the number of blocks on each level and records it in the chart below.

21 _____

Level	1	2	3	4	5
Blocks	20	16	12	8	4

Which statement describes the number of blocks on each level of her tower?

- A** Bianca adds 4 blocks with every level of the tower.
 - B** Bianca adds 6 blocks with every level of the tower.
 - C** Bianca subtracts 6 blocks with every level of the tower.
 - D** Bianca subtracts 4 blocks with every level of the tower.
- 22** Kiyoshi has three quarters, five dimes, and one nickel in her piggy bank. Identify Kiyoshi's total amount of money and the operation used to calculate it.

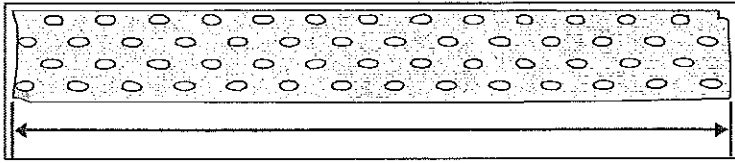
22 _____



- F** \$1.10, addition
- G** \$1.10, subtraction
- H** \$1.30, addition
- J** \$1.30, subtraction

23 Measure the length of the ribbon in centimeters.
About how long is the ribbon?

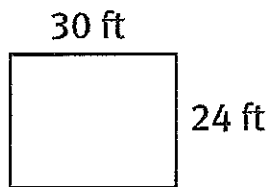
23 _____



- A** 8 centimeters **C** 10 centimeters
B 9 centimeters **D** 11 centimeters

24 A classroom is shaped like a rectangle with a length of 30 feet and a width of 24 feet.

24 _____

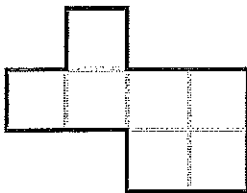



What is the perimeter in feet of the classroom?

- F** 54 feet **G** 84 feet **H** 108 feet **J** 720 feet

25 What is the area of this figure?

25 _____

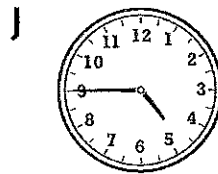
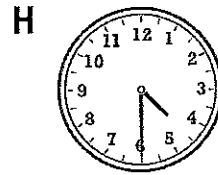
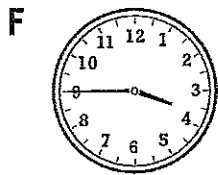


 = 1 square unit

- A** 4 square units **C** 7 square units
B 6 square units **D** 8 square units

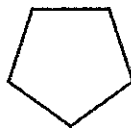
26 Sam's baseball practice starts at 3:15. His practice is $1\frac{1}{2}$ hours long. What time does his practice end?

26 _____



27 How many lines of symmetry are there in the figure below?

27 _____



A 0

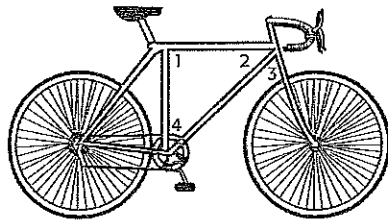
B 1

C 5

D 10

28 Look at the four angles marked on the picture of a bicycle.

28 _____

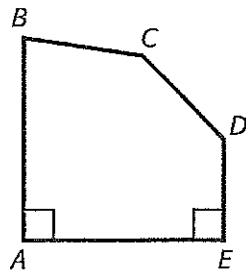


Which angle appears to be a right angle?

- F angle 1
- G angle 2
- H angle 3
- J angle 4

29 The polygon below has two right angles.

29 _____



Which side of the polygon is parallel to side \overline{AB} ?

- A \overline{BC}
- B \overline{CD}
- C \overline{DE}
- D \overline{EA}

30 Bella drew an angle that measured 105° . What type of angle did she draw?

30 _____

- F right
- G acute
- H obtuse
- J straight

