Year-End Test 2

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This test has 50 problems. This test should be combined with the score on Year-End Test 1 for a total of 100 points.

Feel free to skip the starred problems if your students have not learned these concepts.

The following are the concepts reviewed on the test:

Concepts are continued on the next page.

Q#	*Lesson*	*Concept*	*TEKS Standard*
1	130	Addition of integers	6.3C, 6.3D
2	130	Addition of integers	6.3C, 6.3D
3	143	Subtraction of integers	6.3C, 6.3D
4	☆ 77	Square roots	8.2B
5	77	Exponents	6.2A, 6.7A
6	122	Multiplication: 3 digit x 3 digit	6.3C, 6.3D
7	52	Division involving decimals	6.3E
8	136	3-digit divisor into a 4-digit dividend	6.3C, 6.3D
9	81	Adding zeros to the right of the dividend	6.2A, 6.3C, 6.3D
10	2	Less than and greater than	6.2C
11	60	Sum of a circle's central angles	6.8A
12	56	Greatest common factors	6.3D
13	25	Right angles	6.8A, 7.5B
14	95	Places to the right of the thousandths	6.2A, 6.2B, 6.2C
15	3	Trial and error in equations	6.1A - G*
16	21	2-D figures: hexagon	5.5 (This is a TEKS concept from the previous year)
17	118	Division of fractions	6.3E
18	118	Division of fractions	6.3E
19	☆ 77	Square roots	8.2B
20	84	Sequences: counting by varying amounts	6.2A
21	☆ 60	Parts of a circle: radius and diameter	7.5B
22	61	Rounding to the nearest hundredth	6.2A
23	1	Number words less than one million	6.2A
24	123	Rounding fractions to whole numbers	6.2A, 6.2C
25	☆125	Pi (π) as a mixed number	7.5B, 7.8C, 7.9B

*6.1A - G = Mathematical Processes (see introductory page i.5)

☆ = This is an accelerated Excel Math concept that goes beyond TEKS for Grade 6.

Year-End Test 2

Year-End Test 2 Concepts, continued

Q#	*Lesson*	*Concept*	*TEKS Standard*
26	91	Embedded parentheses	6.7A, 6.7B, 6.7C, 6.7D, 6.10A, 6.10B
27	50	Prime numbers	6.7A
28	☆ 125	Circumference	7.5B
29	24	Expanded notation	6.3C, 6.3D
30	99	Ratios as lowest-terms fractions	6.1A - G,* 6.4B, 6.4C, 6.4G
31	86	Estimation to the nearest dollar	6.1A - G,* 6.2A
32	119	Number lines: mixed numbers	6.2C
33	64	Multiples and factors	6.3D
34	25	Acute angles	6.8A
35	☆ 60	Parts of a circle: circumference	7.9B
36	126	Measurement conversion	6.4H
37	116	Percent of a whole number	6.3C, 6.3D, 6.3E
38	15	3-D figures: sphere	3.6A, 7.8A
39	☆ 60	Parts of a circle: chord	7.5B
40	59	Volume of a rectangular prism	6.8C
41	☆ 60	Parts of a circle: arc	7.5B
42	55	Averages	6.12B, 6.12C
43	65	Mode	6.12D
44	120	Averages involving fractions	6.1A - G*, 6.3C, 6.3D, 6.12B, 6.12C
45	69	Trial and error in word problems	6.1A - G*
46	97	Ratios written as a percent	6.4B, 6.4C, 6.4E
47	97	Ratios written as a decimal number	6.4B, 6.4C, 6.4E
48	65	Mean	6.12C
49	115	Equations that represent lines	6.11
50	100	Equations that create patterns	6.9A, 6.9B, 6.10A, 6.10B

*6.1A - G = Mathematical Processes (see introductory page i.5)

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Year-End Test 2 — Name _____ # _____ Date _____ — Excel Math

① $-4 + -9 = -13$

② $-12 + +7 = -5$

③ $-8 - -5 = -3$

④ $\sqrt{81} = 9$

⑤ $3^4 = 81$

⑥
1.97×349
$687.53

⑦ $2\overline{)3.3}$ = **1.65**

⑧ $193\overline{)5,983}$ = **31**

⑨ Calculate a decimal answer. $8\overline{)14}$ = **1.75**

⑩ Select the correct symbol.
-18 (**<**) 7
(**>**) (**<**)

⑪ What is the sum of the central angles of a circle?
360°

⑫ What is the greatest common factor of 18 and 24?
6

⑬ This is **a right** angle.

⑭ seventy-five hundred-thousandths
.00075

⑮ R + R + R = 24
R = **8**

⑯ A hexagon has **6** sides.

⑰ $\frac{2}{5} \div \frac{2}{3} = \frac{3}{5}$

⑱ $6 \div \frac{1}{2} = 12$

★⑲ The square root of 9 is **3** .

⑳ (125, 120, 110, 95, 75, **50**, **20**)

★㉑ The radius of a circle is 6 feet.
The diameter is **12 ft**.

㉒ Round to the nearest hundredth.
5.421 **5.42**

㉓ 4 tens, 7 hundred thousands, 1 thousand and 8 ones
701,048

㉔ Round to the nearest whole number.
$4\frac{5}{10}$ **5**

★㉕ Write π as a mixed number.
$3\frac{1}{7}$

㉖ D + (5 x (34 - 19)) = (17 x 3) + 40
D = **16**

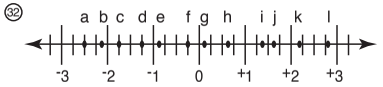
㉗ What are the prime numbers that are greater than 30 and less than fifty?
31, 37, 41, 43, 47

★㉘ What is the circumference of a circle with a radius of 20 centimeters? Use 3.14 for pi.
125.6 cm

㉙ 102,054,680
Write this number in expanded notation.
(1 x 100,000,000) +
(2 x 1,000,000) + (5 x 10,000) +
(4 x 1,000) + (6 x 100) + (8 x 10)

㉚ Jen bought 5 dozen donuts. Two dozen are glazed. If she picks a donut at random, what is the probability it will be a glazed one? Write the answer as a fraction in its lowest terms.
$\frac{2}{5}$

㉛ Carlo and three friends went out to dinner. Each person's meal cost $10.71. Round to the nearest dollar and then estimate the cost of all of their dinners.
$44.00

㉜


Which point is $-1\frac{6}{8}$?
c

Year-End Test 2 — Excel Math

㉝ What numbers are multiples of 3 and factors of 24?
3, 6, 12, 24

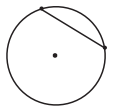
㉞ Draw an acute angle.
any angle less than 90°

★㉟ The distance around a circle is called the
circumference .

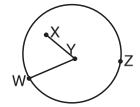
㊱ $2\frac{1}{4}$ gal = **9** qt

㊲ What is 2% of 350?
7

㊳  A sphere has **1** curved surface.

★㊴ Draw a chord on the circle below.


㊵ A rectangular prism is 8 in long, 3 in tall and 11 in wide. What is its volume?
264 cubic in

★㊶


Identify an arc.
WZ

㊷ Two boys weigh 70 and 76 kilograms. What is their average weight?
73 kg

㊸ Danny's photo album has 10 pages. The pages have 3, 4, 2, 7, 4, 3, 0, 2, 4 and 5 photos. What is the mode number of photos per page?
4 photos

㊹ Four students weigh a total of 79 kilograms. What is their average weight? Write any remainder as a fraction.
$19\frac{3}{4}$ **kg**

㊺ There were 3 and 5 point questions on a quiz. Tim scored 45 points, answering 11 questions correctly. How many 3 point questions did he get right?
5 questions

㊻ Andres has 100 grapes. Seventy-one of them are green grapes. If he chooses a grape at random, what is the probability that it will be green? Write the probability as a percent.
71%

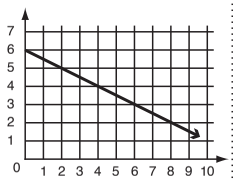
㊼ Wade's class has 35 students. Seven are absent today. If he chooses a student at random from the list of names, what is the probability that it will be an absent student? Write the probability as a decimal.
.2

㊽ Which choice is the definition of the statistical mean?

select the value in the set that occurs most often

(add all the values in a set and divide that total by the number of items in the set)

put all the values of a set in order and select the value in the middle

㊾


Which equation represents the line shown on the graph?

y = 6 - x

y = 6 - 2x

(y = 6 - $\frac{1}{2}$x)

㊿

s	t
1	0
2	1
3	2
4	3
5	4
6	5

Select the equation that shows the relationship between the variables.

2s - 2 = t

(s - 1 = t)

2s ÷ 2 = t