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TEXAS STAAR

MATH

GRADE 5

PRACTICE TESTS

4 FULL-LENGTH

practice tests

ANSWER KEYS

worked solutions

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Decimals • Fractions • Geometry
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Dr. Kam Berenji

Printable eBook Resource

Texas STAAR Math Grade 5 Practice Tests

Four Full-Length Practice Tests
with Answer Sheets, Answer Key, and Worked Solutions

Dr. Kam Berenji

Mathlibros.com

About This Practice Book

This resource provides four original, printable Grade 5 mathematics practice tests aligned to the structure of the Texas STAAR Mathematics blueprint. Each practice test contains 34 questions and is scored out of 42 points.

This book is independently created and is not affiliated with, sponsored by, or endorsed by the Texas Education Agency.

No-calculator Grade 5 note: calculators are not used on these practice tests unless a student has a documented accommodation.

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Practice Test	Questions	Points	Calculator
Test 1	34	42	Not permitted unless documented accommodation
Test 2	34	42	Not permitted unless documented accommodation
Test 3	34	42	Not permitted unless documented accommodation
Test 4	34	42	Not permitted unless documented accommodation

Reference Materials

Perimeter	$P = 2l + 2w$
Area of a rectangle	$A = l \times w$
Volume of a rectangular prism	$V = l \times w \times h$
Length	1 yard = 3 feet; 1 foot = 12 inches
Liquid volume	1 gallon = 4 quarts; 1 quart = 2 pints; 1 pint = 2 cups
Coordinate plane	Ordered pairs are written as (x, y)

Practice Test 1

Directions: Solve each problem. Show work when it helps. This is a no-calculator Grade 5 practice test unless a documented accommodation applies.

1. A craft ribbon costs \$6.64 per yard. Sofia buys 4.75 yards. What is the total cost? [2 points]

Answer: _____

2. Select all decimal comparisons that are true: $6.436 < 6.706$; $6.463 > 6.436$; $6.706 = 6.436$; $6.463 < 6.706$; $6.436 > 6.463$ [2 points]

- A. $6.436 < 6.706$
- B. $6.463 > 6.436$
- C. $6.706 = 6.436$
- D. $6.463 < 6.706$
- E. $6.436 > 6.463$

3. A rectangular prism is 6 inches long, 4 inches wide, and 3 inches tall. What is its volume? [2 points]

Answer: _____

4. A team shares \$33.00 equally among 5 students. How much money does each student receive? [2 points]

Answer: _____

5. The table shows tickets sold: Monday: 15, Tuesday: 18, Wednesday: 18, Thursday: 23. Select all true statements. [2 points]

- A. The total for all four days is 74.
- B. Thursday has the greatest value.
- C. The difference between Thursday and Monday is 8.
- D. Tuesday is less than Monday.
- E. The total for Monday and Wednesday is 33.

6. There are 6 identical boxes of notebooks and 15 loose notebooks. There are 63 notebooks in all. Write an equation using n for the number in each box, and solve for n . [2 points]

Answer: _____

7. A figure has four right angles, two pairs of parallel sides, and side lengths of 7 cm, 7 cm, 7 cm, and 7 cm. Select all classifications that apply. [2 points]

- A. polygon
- B. quadrilateral
- C. parallelogram
- D. rectangle
- E. square
- F. triangle

8. A board is $1 \frac{3}{4}$ meters long. A piece $\frac{1}{6}$ meter long is cut off for a shelf. How long is the remaining board? [1 point]

- A. $1 \frac{7}{12}$
- B. $1 \frac{3}{4}$
- C. $\frac{1}{6}$
- D. $1 \frac{11}{12}$

9. A student earns \$68.00. She plans to spend \$15.00 on food, \$21.00 on supplies, and save \$11.00. How much money is left? [2 points]

Answer: _____

10. How many one-third-cup servings are in 2 cups? [1 point]

- A. 6
- B. 5
- C. 1
- D. $\frac{2}{3}$

11. Which decimal is equal to $5 + \frac{2}{10} + \frac{4}{100} + \frac{6}{1,000}$? [1 point]

- A. 5.246
- B. 5.642
- C. 52.46
- D. 5.024

12. A pattern follows the rule $y = 2x + 5$. What ordered pair is produced when $x = 4$? [1 point]

Answer: _____

13. A point is 4 units to the right of the origin and 7 units up. What ordered pair names the point? [1 point]

Answer: _____

14. A pattern follows the rule $y = 4x + 1$. What ordered pair is produced when $x = 4$? [1 point]

- A. (4, 17)
- B. (17, 4)
- C. (4, 8)
- D. (4, 16)

15. What is 6.508 rounded to the nearest tenth? [1 point]

- A. 6.5
- B. 6.51
- C. 6
- D. 6.608

16. A board is 2 meters long. A piece $\frac{1}{4}$ meter long is cut off for a shelf. How long is the remaining board? [1 point]

- A. $1\frac{3}{4}$
- B. 2
- C. $\frac{1}{4}$
- D. $2\frac{1}{4}$

17. A solid is built from 27 unit cubes. Which unit should be used to describe its volume? [1 point]

- A. cubic units
- B. square units
- C. linear units
- D. degrees

18. What is 2572 divided by 17? [1 point]

- A. 151 R5
- B. 152
- C. 150
- D. 2555

19. Is 41 prime or composite? [1 point]

- A. prime
- B. composite
- C. neither prime nor composite
- D. both prime and composite

20. A store packs the same number of pencils in 4 boxes and has 9 pencils left over. There are 41 pencils total. Which equation can be used to find n , the number of pencils in each box? [1 point]

- A. $4 \times n + 9 = 41$
- B. $4 + n + 9 = 41$

21. A dot plot shows these values: 15, 17, 17, 17, 18, 20, 20, 22. Which value appears most often? [1 point]

- A. 17
- B. 4
- C. 5
- D. 11

22. A rectangular prism is 7 inches long, 7 inches wide, and 4 inches tall. What is its volume? [1 point]

- A. 196 cubic inches
- B. 28 square inches
- C. 18 cubic inches
- D. 49 square inches

23. A model shows 9.32 divided equally into 4 groups. What decimal is represented by each group? [1 point]

- A. 2.33
- B. 9.32
- C. 4
- D. 1.86

24. Choose the symbol that makes the comparison true: 6.836 ____ 7.106 [1 point]

- A. $<$
- B. $>$

25. What is $\frac{2}{3} + \frac{3}{8}$? [1 point]

- A. $1 \frac{1}{24}$
- B. $\frac{5}{11}$
- C. $\frac{2}{3}$
- D. $\frac{3}{8}$

26. Which statement about two-dimensional figures is always true for hierarchy set 3? [1 point]

- A. Every square is a rectangle.
- B. Every rectangle is a square.
- C. No square is a quadrilateral.

Practice Test 1 Answer Key

Q	Answer	Pts	TEKS	Q	Answer	Pts	TEKS
1	\$31.54	2	5.3E	18	A	1	5.3C
2	A, B, D	2	5.2B	19	A	1	5.4A
3	72 cubic inches	2	5.4H	20	A	1	5.4B
4	\$6.60	2	5.3G	21	A	1	5.9A
5	A, B, C, E	2	5.9C	22	A	1	5.4H
6	$6 \times n + 15 = 63$; $n = 8$	2	5.4B	23	A	1	5.3F
7	A, B, C, D, E	2	5.5A	24	A	1	5.2B
8	A	1	5.3K	25	A	1	5.3H
9	\$21.00	2	5.10F	26	A	1	5.5A
10	A	1	5.3L	27	$3 \frac{1}{2}$	1	5.3I
11	A	1	5.2A	28	A	1	5.4F
12	(4, 13)	1	5.4C	29	35	1	5.3J
13	(4, 7)	1	5.8C	30	A	1	5.8A
14	A	1	5.4C	31	A	1	5.10B
15	A	1	5.2C	32	A	1	5.4D
16	A	1	5.3K	33	A	1	5.8B
17	A	1	5.6A	34	A	1	5.3K

Practice Test 1 Worked Solutions

1. A craft ribbon costs \$6.64 per yard. Sofia buys 4.75 yards. What is the total cost? [2 points]

Answer: _____

Answer: \$31.54

Solution: Multiply the cost per yard by the number of yards: $\$6.64 \times 4.75 = \31.54 .

2. Select all decimal comparisons that are true: $6.436 < 6.706$; $6.463 > 6.436$; $6.706 = 6.436$; $6.463 < 6.706$; $6.436 > 6.463$ [2 points]

- A. $6.436 < 6.706$
- B. $6.463 > 6.436$
- C. $6.706 = 6.436$
- D. $6.463 < 6.706$
- E. $6.436 > 6.463$

Answer: $6.436 < 6.706$; $6.463 > 6.436$; $6.463 < 6.706$

Solution: Compare tenths, then hundredths, then thousandths. The true statements are the selected comparisons.

3. A rectangular prism is 6 inches long, 4 inches wide, and 3 inches tall. What is its volume? [2 points]

Answer: _____

Answer: 72 cubic inches

Solution: Volume = length $\times$ width $\times$ height = $6 \times 4 \times 3 = 72$ cubic inches.

4. A team shares \$33.00 equally among 5 students. How much money does each student receive? [2 points]

Answer: _____

Answer: \$6.60

Solution: Divide the total by the number of students: $\$33.00 / 5 = \6.60 .

5. The table shows tickets sold: Monday: 15, Tuesday: 18, Wednesday: 18, Thursday: 23. Select all true statements. [2 points]

- A. The total for all four days is 74.
- B. Thursday has the greatest value.
- C. The difference between Thursday and Monday is 8.
- D. Tuesday is less than Monday.
- E. The total for Monday and Wednesday is 33.

Answer: The total for all four days is 74.; Thursday has the greatest value.; The difference between Thursday and Monday is 8.; The total for Monday and Wednesday is 33.

Solution: Check each statement against the table values and compute totals or differences where needed.

6. There are 6 identical boxes of notebooks and 15 loose notebooks. There are 63 notebooks in all. Write an equation using n for the number in each box, and solve for n . [2 points]

Answer: _____

Answer: $6 \times n + 15 = 63$; $n = 8$

Solution: Subtract the loose notebooks first: $63 - 15 = 48$. Then divide by 6: $48 / 6 = 8$, so $6 \times n + 15 = 63$; $n = 8$.

7. A figure has four right angles, two pairs of parallel sides, and side lengths of 7 cm, 7 cm, 7 cm, and 7 cm. Select all classifications that apply. [2 points]