

Final Test — Form A

6.RP

6.NS

6.EE

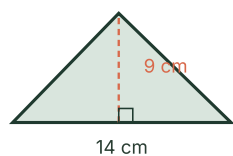
6.G

6.SP

Name _____ Date _____

Grade 6 math final — all topics. Show your work and write each answer in simplest form.

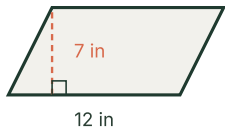
1. Write the ratio 18 to 24 in simplest form.
2. Evaluate $3^2 + 4 \times (8 - 5)$.
3. Compute $\frac{3}{4} \div \frac{2}{5}$.
4. Order these integers from least to greatest: $-5, 3, -1, 0, 2$.
5. What is 35% of 240?
6. Find the area of the triangle below.



7. A reader types 252 words in 6 minutes. What is the unit rate in words per minute?
8. Find the value of $2x^2 + 7$ when $x = 3$.
9. Find the LCM of 8 and 12.
10. Solve for x : $7x = 84$.
11. Write an algebraic expression for "7 less than twice a number n ."
12. Compute $12.6 \div 0.7$.
13. Use the distributive property to write $36 + 24$ as a product of the GCF and a sum.
14. Solve the inequality $x + 5 < 12$.

15. Simplify by combining like terms: $8x - 3x + 5$.

16. Find the area of the parallelogram below.



17. Reflect the point $(4, -2)$ across the x -axis. What are the coordinates of its image?

18. Which expression is equivalent to $3(2x + 5)$?

A) $6x + 5$

B) $5x + 8$

C) $6x + 15$

D) $2x + 15$

19. Compute $4256 \div 7$.

20. Complete the table of equivalent ratios for 3 teachers to 8 students.

Teachers	3	9	?
Students	8	?	40

21. The table shows the total cost c for buying t team T-shirts. Write an equation that gives c in terms of t .

t	1	2	3
c	9	18	27

22. Compute $3\frac{3}{4} \div 1\frac{1}{2}$.

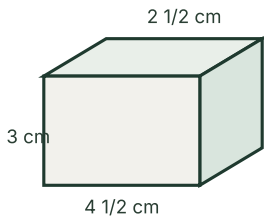
23. The dot plot shows the number of goals the school soccer team scored in each of 10 games. Find the mean, median, and mode of the data.



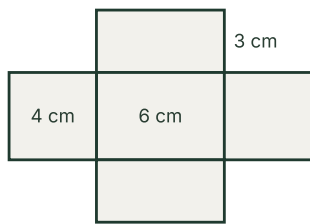
24. A box of 8 pens costs \$6.00, and a box of 15 pens costs \$10.50. Which box is the better buy? Justify with unit prices.

25. On a quiz, Maria answered 18 of the 24 questions correctly. What percent did she answer correctly?

26. Find the volume of the rectangular prism below.



27. The figure shows the net of a rectangular box. Find its total surface area.



28. The gym floor is an L-shaped region: a full rectangle 10 m wide and 6 m deep, with a 4 m by 3 m storage corner removed. What is the area of the gym floor?

29. Coach has \$200 to buy basketballs that cost \$24 each. What is the greatest number of basketballs she can buy, and how much money is left over?

30. Liam's first four science test scores are 112, 98, 134, 120. What score must he earn on his fifth test so that his mean for all five tests is exactly 120?