

Grade 6 end-of-year math test

NAME	DATE	SCORE / 10
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Answer each question. Show your work.

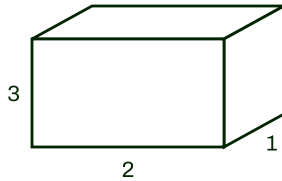
1 Gas costs \$2.80 per gallon. How much do 6 gallons of gas cost, in dollars?	2 Write an expression for "7 times the difference of a number n and 10".
3 Write the ratio 18:12 with both numbers divided by 6.	4 In a class of 20 children, 10 have a pet. What percent of the children in the class have a pet?
5 Leo and Ivy share \$35 in the ratio 2:5. How much money does Ivy get, in dollars?	6 Write $\frac{7}{8}$, 0.613, $\frac{1}{5}$, 0.4, $\frac{1}{6}$ in order from least to greatest.
7 An animal shelter has 2 cats and 16 dogs. Write the ratio of cats to dogs in simplest form.	8 Which property shows that $4x + 7 = 7 + 4x$? ☐ Associative property of multiplication ☐ Associative property of addition ☐ Commutative property of addition ☐ Commutative property of multiplication
9 A printer prints 34 pages per minute. Which sentence tells what this rate means? ☐ The printer can print 34 pages in all. ☐ In 1 minute, the printer prints 34 pages. ☐ The printer takes 34 minutes to print 1 page. ☐ In 1 hour, the printer prints 34 pages.	10 Ben has 8 cups of rice. Each bowl gets $\frac{1}{4}$ cup of rice. Which calculation finds the number of bowls Ben can fill? ☐ $8 \div \frac{1}{4}$ ☐ $8 \times \frac{1}{4}$ ☐ $\frac{1}{4} \div 8$ ☐ $8 - \frac{1}{4}$

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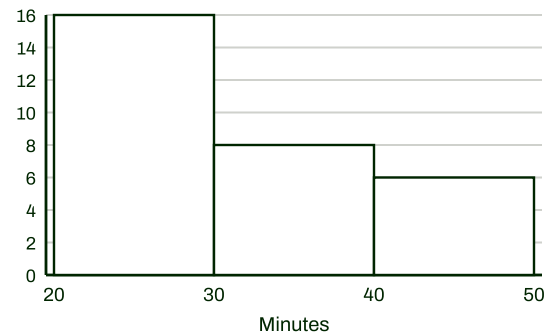
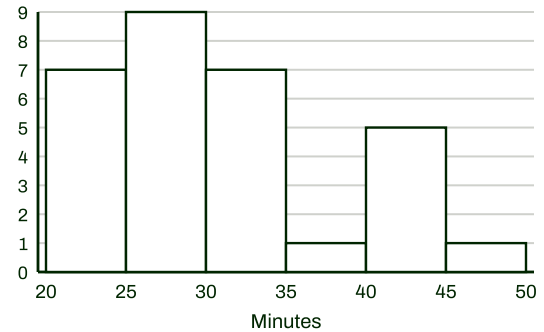
NAME	DATE	SCORE / 2
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Answer each question. Show your work.

- 15** The box below is 2 units long, 1 unit wide and 3 units tall. Each square on the grid is 1 unit long. Draw a net for the box on the grid.



- 16** Both histograms show the same data: how many minutes each runner took to finish a fun run. Which histogram hides a real feature of the data?



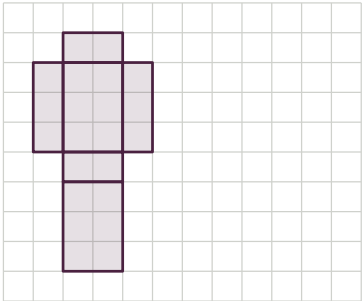
- ☐ The bottom one: it shows fewer runners
- ☐ The bottom one: its wider bars hide the gap between two groups
- ☐ The top one: its narrower bars invent a gap
- ☐ Neither: the same data always gives the same shape

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1	16.80	2	$7(n - 10)$	3	3:2
4	50	5	25	6	$\frac{1}{6}, \frac{1}{5}, 0.4, 0.613, \frac{7}{8}$
7	1:8	8	Commutative property of addition	9	In 1 minute, the printer prints 34 pages.
10	$8 \div \frac{1}{4}$	11	76	12	17
13	$-1\frac{1}{2}, -1.4, -\frac{1}{2}, \frac{7}{8}$	14	It goes up by 1	15	

16

The bottom one: its wider bars hide the gap between two groups



Six rectangles joined edge to edge: two 2 by 1, two 2 by 3 and two 1 by 3, arranged so they fold into the box. Any layout that folds closed with no gaps or overlaps counts; matching edges must be the same length.