

Grade 7 daily math review

NAME	DATE	SCORE / 6
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DAY 1

Answer each question.

1

What is the distance between 5 and -10 on a number line?

2

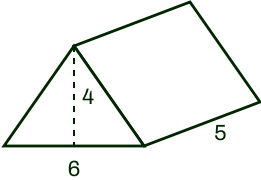
$\frac{5}{7} = \frac{\quad}{42}$

3

A random sample of 50 fish from a lake has 10 trout. The lake has about 800 fish. About how many trout are in the lake?

4

The prism below is measured in centimetres. Each slanted side of its triangle is 5 centimetres. What is the surface area, in square centimetres, of the prism?



5

$5^3 = ?$

6

Ivy pours $\frac{2}{3}$ litre of juice equally into 5 cups. Which calculation finds how much juice, in litres, is in each cup?

☐ $\frac{2}{3} \times 5$

☐ $\frac{2}{3} \div 5$

☐ $5 - \frac{2}{3}$

☐ $5 \div \frac{2}{3}$

Grade 7 daily math review

NAME	DATE	SCORE / 6
------	------	-----------

DAY 2 Answer each question.

7

Emma writes $9 - \frac{3}{4} = \frac{3}{4} - 9$. Which property did Emma use, if any?

☐ Additive inverse

☐ Her step is wrong

☐ Associative

☐ Commutative

8

A shape is made of a triangle and a semicircle. The triangle has a base of 12 centimetres and a height of 12 centimetres. The base of the triangle is the diameter of the semicircle. Use 3.14 for π . What is the area, in square centimetres, of the shape?

9

A fair number cube shows 6 in 1 of 12 rolls. The model predicts 2 sixes. Why can the result differ from the model?

☐ The model must be wrong

☐ The number cube must be unfair

☐ The next few trials will make up for it

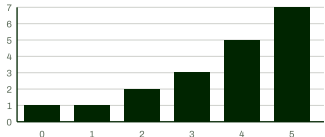
☐ With few trials, results vary by chance

10

Write $2 + 16n$ as a product, taking out the greatest common factor.

11

The chart shows how many children read each number of books. What is the range of the number of books?



12

What is the opposite of 13?

Grade 7 daily math review · Grade 7

Page 2 of 6

Grade 7 daily math review

NAME	DATE	SCORE / 6
------	------	-----------

DAY 3 Answer each question.

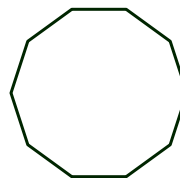
13 When x is 3, 6 and 9, y is 15, 27 and 39. Is y proportional to x , and why?

- ☐ Yes: $y \div x$ is always 5
☐ No: $y - x$ is not always the same
☐ No: $y \div x$ is not always the same
☐ Yes: y goes up by 12 each time

15 $\frac{3}{4} + (-\frac{1}{5}) = ?$ Give the answer in lowest terms.

14 $6 \times (-10) = ?$

16 The shape below is a regular polygon with 10 sides. What is the measure, in degrees, of one exterior angle of the shape?



17 Write the quotient and remainder: $2,459 \div 67$

18 A class has 3 boys and 8 girls. Write the ratio of boys to girls as a fraction.

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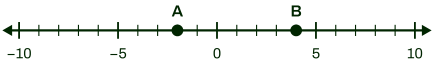
DAY 4 Answer each question.

19

$\frac{10}{2} = \frac{\_\_\_}{3}$

20

Points A and B are plotted on the number line below. What is the distance between point A and point B?



21

The sequence 46, 38, 30, 22, 14 continues in the same way. What is the common difference?

22

Ivy wants to draw a triangle with angles of 15°, 40° and 135°. How many different triangles can Ivy draw with these measurements?

☐ Exactly one triangle
 ☐ More than one triangle
 ☐ No triangle

23

A box has 9 pens and 8 pencils. Write the ratio of pencils to pens in the form "a to b".

24

The line plot shows how many books each child read last month. How many observations are in the data set?



Grade 7 daily math review

1	15	2	30	3	160
4	104	5	125	6	$\frac{2}{3} \div 5$
7	Her step is wrong	8	128.52	9	With few trials, results vary by chance
10	$2(1 + 8n)$	11	5	12	-13
13	No: $y \div x$ is not always the same	14	-60	15	$\frac{11}{20}$
16	36	17	36 r47	18	$\frac{3}{8}$
19	15	20	6	21	-8
22	No triangle	23	8 to 9	24	20
25	It will most likely get closer to $\frac{1}{6}$	26	75	27	$-35n + 30$
28	72	29	232	30	Girls to all the children