

Grade 8 daily math review

NAME	DATE	SCORE / 6
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DAY 1

Answer each question.

1

A right triangle has legs of 7 and 24 units. What is the length, in units, of the hypotenuse?

2

A survey asked students two questions. Of the students who own a pet, 56% walk to school. Of the students who do not own a pet, 11% walk to school. Is there an association between owning a pet and walking to school?

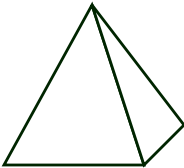
☐ No: the two groups have different numbers of students
 ☐ Yes: 56% and 11% are far apart
 ☐ No: some students in both groups walk to school

3

How many 10s are multiplied together in $(10 \times)^2$?

4

A pyramid has a square base with sides of 12 metres. The height of the pyramid is 15 metres. What is the volume, in cubic metres, of the pyramid?



5

Dev spins a spinner 40 times. The tally shows the results. Based on these results, what is the experimental probability of landing on red? Write it as a fraction.

Red

||||

Blue

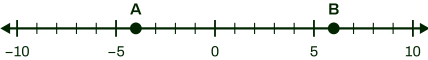
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Green

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6

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



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DAY 3

Answer each question.

13

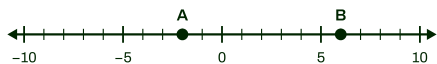
A town had 6,100 people. The number of people fell by 20% one year and grew by 20% the next year. How many people are in the town now?

15

Write 10×10^2 as a decimal.

17

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



14

Write 0.777... as a fraction in lowest terms.

16

A survey asked students two questions. Of the students who play a sport, 80% eat breakfast every day. Of the students who do not play a sport, 41% eat breakfast every day. Is there an association between playing a sport and eating breakfast every day?

☐ No: some students in both groups eat breakfast every day

☐ Yes: 80% and 41% are far apart

☐ No: the two groups have different numbers of students

18

The chance of red on a spinner is $\frac{1}{4}$. Which number of spins is more likely to give a fraction of reds close to $\frac{1}{4}$?

☐ 16 spins ☐ 1000 spins

☐ Both are equally likely

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DAY 4 Answer each question.

- 19** A right triangle has a hypotenuse of 26 metres and one leg of 24 metres. What is the length, in metres, of the other leg?

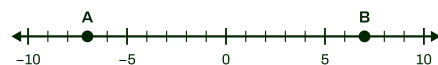
- 20** A bag has 10 tickets: 1 is worth \$5, 2 are worth \$2 each, and the rest are worth \$0. A player draws a ticket and puts it back each time. Over many draws, what is the mean amount won per draw, in dollars?

- 21** Is $-\frac{4}{15}$ rational or irrational, and why?
- ☐ Irrational. Its decimal never stops or repeats.
☐ Rational. Its decimal repeats the same digits forever.
☐ Rational. Its decimal stops.
☐ Irrational. Its decimal repeats forever, so it never stops.

- 23** $21 + (-34) = ?$

- 22** A block of metal has a mass of 60 grams and a volume of 30 cubic centimetres. What is the density of the metal?
- ☐ 2 cubic centimetres per gram
☐ 2 grams per cubic centimetre
☐ 0.5 grams per cubic centimetre

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



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1	25	2	Yes: 56% and 11% are far apart	3	10
4	720	5	$\frac{1}{8}$	6	10
7	1	8	1815	9	$95.5 \leq L < 96.5$
10	No, it is not a perfect square	11	33	12	470
13	5856	14	$\frac{7}{9}$	15	0.01
16	Yes: 80% and 41% are far apart	17	8	18	1000 spins
19	10	20	0.9	21	Rational. Its decimal repeats the same digits forever.
22	2 grams per cubic centimetre	23	-13	24	14
25	Estimate: $5 \times \$19 = \$95$, which is less than \$100.	26	2080.80	27	<
28	No solution: the x terms cancel and leave a false statement	29	-4.3	30	516