2023 Spring G3 Preview

Day 1

- 1 Express the following fractions as decimals.
 - (1) $\frac{1}{10} =$ _____
 - (2) $\frac{7}{10} =$
 - (3) $\frac{1}{100} =$
 - (4) $\frac{49}{100} =$
 - (5) $\frac{365}{1000} =$
 - (6) $\frac{1}{4} =$ _____
- 2 Calculate:
 - (1) 5.3 + 10.2 =
 - (2) 7.8 + 2.1 =
 - (3) 11.1 + 22.2 =
- 3 Calculate:
 - (1) 11.7 + 2.3 =



(2)
$$2.55 + 7.68 =$$

(3)
$$16.98 + 23.04 =$$

4 Calculate:

(1)
$$11.6 - 8.3 =$$

(2)
$$25.4 - 17.1 =$$

(3)
$$9.2 - 7.5 =$$

5 Calculate:

(1)
$$10.25 - 3.94 =$$

(2)
$$18.07 - 9.19 =$$

$$(3) \quad 20.23 - 19.45 = \underline{\hspace{1cm}}$$

Day 2

7	How may	ny numbei	rs bolow	aro di	visiblo	by 5	2
	How mai	ny numbei	s below	are ur	visible	Dy 5	:

269 680 555 1000 87 2345

A. 1 B. 2 C. 3 D. 4

8 How many numbers below are divisible by 3?

269 680 555 1000 87 2345

A. 1 B. 2 C. 3 D. 4

Simplify the following expressions:

(1)
$$a+2a+3a =$$
_____.

(2)
$$4 \times b =$$
_____.

(3)
$$2a + b - a =$$
_____.

$$(4) \quad x \times x \quad \underline{\hspace{1cm}} .$$

10 Simplify the following expressions:

$$(1) \quad 9a - 5a + 9 - 3 = \underline{\hspace{1cm}}.$$



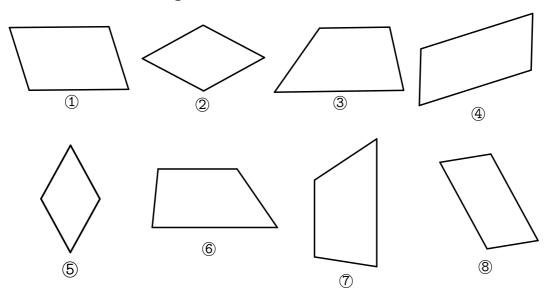
(2)
$$2b+9+4b+13 =$$
_____.

(3)
$$3x + 11 - x =$$
_____.

(4)
$$x-2y+9-y+5 =$$
_____.

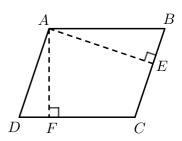
Day 3

As shown below, _____ are parallelograms, and _____ are trapezoids. (Write the serial number of each figure on the line.)

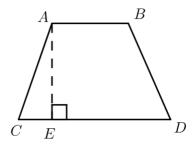


 \square As shown below, in parallelogram ABCD, CD=9 cm, AF=8 cm, and BC=6 cm.



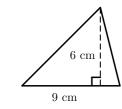


- (1) The area of this parallelogram is _____ cm².
- (2) The length of AE is ____ cm.
- As shown in the figure below, AB = 3, CD = 5, AE = 4. What is the area of trapezoid ABDC?

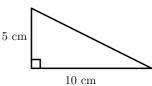


14 Calculate the area of each triangle.

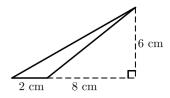
(1)



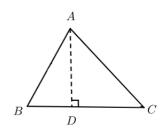
(2)



(3)



As shown in the figure below, BC = 12 cm, and the area of triangle ABC is 48 cm². What is the length of AD?



Day 4



$$\frac{25}{11}$$
 $4\frac{8}{9}$ $\frac{14}{15}$ $\frac{23}{14}$ $6\frac{2}{3}$ $\frac{47}{55}$ $3\frac{3}{10}$

$$\frac{14}{15}$$

$$6\frac{2}{3}$$

$$3\frac{3}{10}$$

(1) How many proper fractions are there among the fractions above?

A. 1

B. 2

C. 3

D. 4

(2) How many improper fractions are there among the fractions above?

A. 1

B. 2

C. 3

D. 4

(3) How many mixed numbers are there among the fractions above?

B. 2

C. 3

17 Rewrite the mixed numbers as improper fractions.

(1)
$$5\frac{2}{3} = \underline{\hspace{1cm}}$$
.

(2)
$$2\frac{4}{7} = \underline{\hspace{1cm}}$$
.

(3)
$$8\frac{5}{9} = \underline{\hspace{1cm}}$$

(4)
$$4\frac{12}{13} = \underline{\hspace{1cm}}$$

18 Rewrite the improper fractions as mixed numbers.

(1)
$$\frac{11}{7} =$$
_____.

(2)
$$\frac{16}{5} =$$
_____.

(3)
$$\frac{35}{11} =$$
_____.

(4)
$$\frac{9}{2} =$$
_____.

19 Fill in the blanks.

(1)
$$\frac{15}{24} = \frac{15 \div 3}{24 \div ()} = \frac{5}{()}$$

(2)
$$\frac{4}{7} = \frac{4 \times ()}{7 \times 5} = \frac{()}{()}$$

(3)
$$\frac{5}{8} = \frac{5 \times ()}{8 \times ()} = \frac{25}{()}$$

(4)
$$\frac{9}{14} = \frac{27}{()}$$

(5)
$$\frac{9}{18} = \frac{1}{()}$$

(6)
$$\frac{16}{36} = \frac{()}{9}$$

20 Find the simplest form of each fraction below.

(1)
$$\frac{5}{10} =$$
_____.

(2)
$$\frac{8}{18} =$$
_____.

(3)
$$\frac{9}{39} =$$
_____.

(4)
$$\frac{12}{15} = \underline{\hspace{1cm}}$$



(5)
$$\frac{16}{96} =$$
_____.