



1

[解 説]

(1)	$\frac{8}{21}$
(2)	$\frac{4}{15}$

$$\begin{aligned}
 1 \quad (1) \quad & \frac{16}{15} \div \frac{4}{5} \times \frac{2}{7} \\
 &= \frac{16}{15} \times \frac{5}{4} \times \frac{2}{7} \\
 &= \frac{\overset{4}{\cancel{16}} \times \overset{1}{\cancel{5}} \times 2}{\underset{3}{\cancel{15}} \times \underset{1}{\cancel{4}} \times 7} \\
 &= \frac{8}{21}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{14}{5} \div \frac{7}{6} \div 9 \\
 &= \frac{14}{5} \times \frac{6}{7} \times \frac{1}{9} \\
 &= \frac{\overset{2}{\cancel{14}} \times \overset{2}{\cancel{6}} \times 1}{5 \times \underset{1}{\cancel{7}} \times \underset{3}{\cancel{9}}} \\
 &= \frac{4}{15}
 \end{aligned}$$

2

(1)	$\frac{9}{11} \text{ cm}^2$
(2)	$\frac{9}{8} \text{ cm}^2$

$$\begin{aligned}
 2 \quad (1) \quad & \frac{12}{11} \times \frac{3}{4} = \frac{\overset{3}{\cancel{12}} \times 3}{11 \times \underset{1}{\cancel{4}}} \\
 &= \frac{9}{11}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{7}{2} \times \frac{9}{14} \div 2 \\
 &= \frac{7}{2} \times \frac{9}{14} \times \frac{1}{2} \\
 &= \frac{\underset{1}{\cancel{7}} \times 9 \times 1}{2 \times \underset{2}{\cancel{14}} \times 2} \\
 &= \frac{9}{8}
 \end{aligned}$$

3

(1)	$\frac{13}{10} \text{ 時間}$
(2)	170 秒

$$\begin{aligned}
 3 \quad (1) \quad & \text{1 時間 18 分} = 78 \text{ 分なので,} \\
 & 78 \div 60 = \frac{78}{60} = \frac{13}{10}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{5}{6} \text{ 分は,} \\
 & \frac{5}{6} \times 60 = \frac{5 \times \overset{10}{\cancel{60}}}{\underset{1}{\cancel{6}} \times 1} \\
 &= 50, 50 \text{ 秒} \\
 & 2 \text{ 分} = 120 \text{ 秒なので,} \\
 & 50 + 120 = 170
 \end{aligned}$$

4

(1)	12 本
(2)	300 円

$$\begin{aligned}
 4 \quad (1) \quad & \frac{21}{4} \div \frac{7}{16} = \frac{21}{4} \times \frac{16}{7} \\
 &= \frac{\overset{3}{\cancel{21}} \times \overset{4}{\cancel{16}}}{\underset{1}{\cancel{4}} \times \underset{1}{\cancel{7}}} \\
 &= 12
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & 480 \div \frac{8}{5} = \frac{480}{1} \times \frac{5}{8} \\
 &= \frac{\overset{60}{\cancel{480}} \times 5}{1 \times \underset{1}{\cancel{8}}} \\
 &= 300
 \end{aligned}$$



1

[解 説]

(1)	$\frac{3}{4}$
(2)	$\frac{4}{75}$

$$\begin{aligned}
 1 \quad (1) \quad & \frac{11}{6} \times \frac{3}{7} \div \frac{22}{21} \\
 &= \frac{11}{6} \times \frac{3}{7} \times \frac{21}{22} \\
 &= \frac{\overset{1}{\cancel{11}} \times \overset{1}{\cancel{3}} \times \overset{3}{\cancel{21}}}{\underset{2}{\cancel{6}} \times \underset{1}{\cancel{7}} \times \underset{2}{\cancel{22}}} \\
 &= \frac{3}{4}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{3}{10} \div 9 \div \frac{5}{8} \\
 &= \frac{3}{10} \times \frac{1}{9} \times \frac{8}{5} \\
 &= \frac{\overset{1}{\cancel{3}} \times \overset{4}{\cancel{1}} \times \overset{4}{\cancel{8}}}{\underset{5}{10} \times \underset{3}{\cancel{9}} \times \underset{5}{5}} \\
 &= \frac{4}{75}
 \end{aligned}$$

2

(1)	$\frac{12}{7} \text{ cm}^2$
(2)	$\frac{21}{10} \text{ cm}^2$

$$\begin{aligned}
 2 \quad (1) \quad & \frac{9}{7} \times \frac{8}{3} \div 2 \\
 &= \frac{9}{7} \times \frac{8}{3} \times \frac{1}{2} \\
 &= \frac{\overset{3}{\cancel{9}} \times \overset{4}{\cancel{8}} \times \overset{1}{\cancel{1}}}{\underset{1}{7} \times \underset{1}{\cancel{3}} \times \underset{1}{\cancel{2}}} \\
 &= \frac{12}{7}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{12}{5} \times \frac{7}{8} = \frac{\overset{3}{\cancel{12}} \times \overset{7}{\cancel{7}}}{\underset{2}{5} \times \underset{2}{\cancel{8}}} \\
 &= \frac{21}{10}
 \end{aligned}$$

3

(1)	69 分
(2)	$\frac{12}{5}$ 分

$$\begin{aligned}
 3 \quad (1) \quad & \frac{3}{20} \text{ 時間は,} \\
 & \frac{3}{20} \times 60 = \frac{\overset{3}{3} \times \overset{60}{\cancel{60}}}{\underset{1}{20} \times \underset{1}{\cancel{1}}} \\
 &= 9, 9 \text{ 分} \\
 &1 \text{ 時間} = 60 \text{ 分なので,} \\
 &9 + 60 = 69
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & 2 \text{ 分 } 24 \text{ 秒} = 144 \text{ 秒なので,} \\
 & 144 \div 60 = \frac{144}{60} = \frac{12}{5}
 \end{aligned}$$

4

(1)	12 個
(2)	120 円

$$\begin{aligned}
 4 \quad (1) \quad & \frac{42}{5} \div \frac{7}{10} = \frac{42}{5} \times \frac{10}{7} \\
 &= \frac{\overset{6}{\cancel{42}} \times \overset{2}{\cancel{10}}}{\underset{1}{5} \times \underset{1}{\cancel{7}}} \\
 &= 12
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & 380 \div \frac{19}{6} = \frac{380}{1} \times \frac{6}{19} \\
 &= \frac{\overset{20}{\cancel{380}} \times \overset{6}{\cancel{6}}}{\underset{1}{1} \times \underset{1}{\cancel{19}}} \\
 &= 120
 \end{aligned}$$



1

[解 説]

(1)	①	$8 \times x$
	②	360 cm^2
(2)	①	$300 + x$
	②	1100

1 (1) ① 長方形の面積は、(たて)×(横)なので、
 $8 \times x$

② x が 45 なので、 $8 \times 45 = 360$

(2) ① (かごの値段)+(メロンの値段)=(代金)なので、
 $300 + x = y$

② x が 800 なので、 $300 + 800 = 1100$

2

(1)	①	$120 \times x + 550 = 1030$
	②	4 個
(2)	①	$13 \times x = 156$
	②	12 個

2 (1) ① (おにぎり x 個の値段)+(弁当の値段)=(代金)なので、
 $120 \times x + 550 = 1030$

② $120 \times \boxed{1} + 550 = 670$

$120 \times \boxed{2} + 550 = 790$

⋮

$120 \times \boxed{4} + 550 = 1030$ x にあてはまる数は 4

(2) ① (ブロック 1 個の高さ)×(個数)=(積み重ねたときの高さ)
 なので、

$$13 \times x = 156$$

② $x = 156 \div 13 = 12$

3

イ

3 ア～ウを式で表すと、

ア $650 - x \times 8$

イ $x \times 8 - 650$

ウ $x \times 8 + 650$

$x \times 8 - 650$ の式で表されるのは、イです。



1

[解 説]

(1)	①	$11 \times x$
	②	165 cm^2
(2)	①	$220 + x$
	②	840

1 (1) ① 平行四辺形の面積は、(底辺)×(高さ)なので、
 $11 \times x$

② x が 15 なので、 $11 \times 15 = 165$

(2) ① (ビンの重さ)+(ジュースの重さ)=(全体の重さ)なので、
 $220 + x = y$

② x が 620 なので、 $220 + 620 = 840$

2

(1)	①	$70 \times x + 90 = 1000$
	②	13 個
(2)	①	$x \times 15 = 1200$
	②	80 g

2 (1) ① (クッキー x 個の値段)+(箱の値段)=(代金)なので、
 $70 \times x + 90 = 1000$

② $70 \times \boxed{10} + 90 = 790$

$70 \times \boxed{11} + 90 = 860$

⋮

$70 \times \boxed{13} + 90 = 1000$ x にあてはまる数は 13

(2) ① (1 ふくろの小麦粉の重さ)×(ふくろの数)=(全部の重さ)
 なので、

$$x \times 15 = 1200$$

② $x = 1200 \div 15 = 80$

3

ア

3 ア～ウを式で表すと、

ア $(400 + x) \times 5$

イ $x \times 5 + 400$

ウ $400 - x \times 5$

$(400 + x) \times 5$ の式で表されるのは、アです。



1

[解説]

(1)	①	7 : 15
	②	38 : 21
(2)	①	10
	②	9

$$1 \quad (2) \quad ① \quad 5 : 7 = \boxed{} : 14 \quad \boxed{} = 5 \times 2 = 10$$

$\xrightarrow{\times 2}$

$$② \quad \frac{5}{12} : \frac{3}{4} = \frac{5}{12} : \frac{9}{12} = 5 : 9$$

$$\boxed{} = 9$$

2

(1)	1 : 7
(2)	1 : 24
(3)	4 : 15
(4)	9 : 100

$$2 \quad (2) \quad 250 \text{ g} : 6 \text{ kg} = 250 \text{ g} : 6000 \text{ g}$$

$$250 : 6000 = 1 : 24$$

3

(1)	16 cm
(2)	84 m ²

3 (2) 花だん全体を $4 + 3 = 7$ 等分すると、パンジーを植えた面積は 4 つ分て、全体の $\frac{4}{7}$ になり、これが 48 m^2 です。

花だん全体の面積を $\square \text{ m}^2$ とすると、

$$48 : \square = 4 : 7$$

$$\xrightarrow{\times 12}$$

$$\square = 7 \times 12 = 84$$



1

[解説]

(1)	①	19:16
	②	17:67
(2)	①	12
	②	19

$$\begin{array}{l}
 1 \quad (2) \quad ① \quad 4:5 = \boxed{}:15 \\
 \qquad \qquad \qquad \underbrace{\hspace{1.5cm}}_{\times 3} \uparrow \\
 \qquad \qquad \qquad \boxed{} = 4 \times 3 = 12
 \end{array}$$

$$\begin{array}{l}
 ② \quad 6:\boxed{} = 12:38 \\
 \qquad \qquad \qquad \underbrace{\hspace{1.5cm}}_{\times 2} \uparrow \\
 \qquad \qquad \qquad \boxed{} = 38 \div 2 = 19
 \end{array}$$

2

(1)	2:5
(2)	1:25
(3)	8:7
(4)	1:2

$$\begin{array}{l}
 2 \quad (2) \quad 60\text{g}:1.5\text{kg} = 60\text{g}:1500\text{g} \\
 \qquad \qquad \qquad 10\text{でわる} \rightarrow 6:150 \quad 6\text{でわる} \rightarrow 1:25
 \end{array}$$

3

(1)	99	cm
(2)	119	m ²

$$\begin{array}{l}
 3 \quad (2) \quad \text{花だん全体を } 11+6=17 \text{ 等分すると, 広い方は } 11 \text{ つ分で全体の} \\
 \qquad \qquad \qquad \frac{11}{17} \text{ となり, これが } 77\text{m}^2 \text{ です。}
 \end{array}$$

$$\begin{array}{l}
 \text{花だん全体の面積を } \square \text{ m}^2 \text{ とすると, } 77:\square = 11:17 \\
 \qquad \qquad \qquad \underbrace{\hspace{1.5cm}}_{\times 7}
 \end{array}$$

$$\square = 17 \times 7 = 119$$