



1

線対称	ア, ウ
点対称	ア, ウ, エ, オ

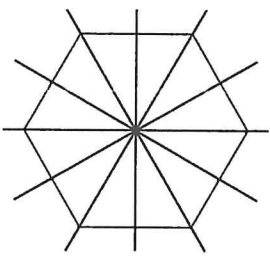
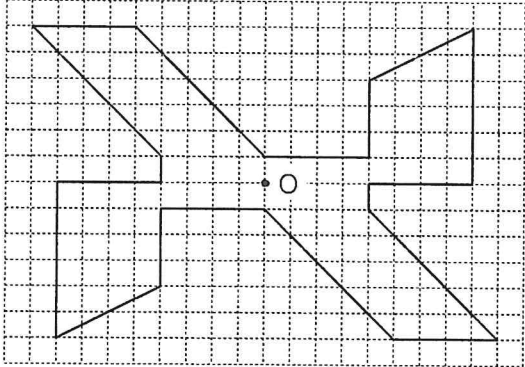
2

(1)	対称の中心
(2)	辺DC
(3)	直線EO

3

(1)	5 本
(2)	ア, ウ
(3)	イ, ウ

4

(1)	
(2)	



1

線対称	ア, エ
点対称	ア, イ, ウ, エ

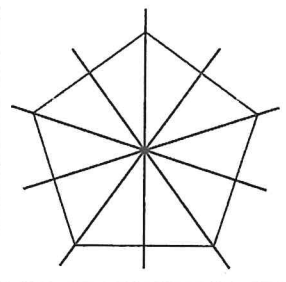
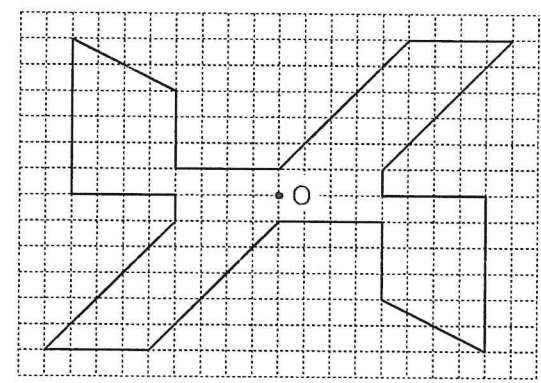
2

(1)	対称の中心
(2)	辺FG
(3)	直線HO

3

(1)	6 本
(2)	イ, ウ
(3)	ア, イ, ウ

4

(1)		(2)	
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1

[解 説]

(1)	153.86	cm ²
(2)	39.25	cm ²

1 (1) $7 \times 7 \times 3.14 = 153.86$

(2) $10 \div 2 = 5$
 $5 \times 5 \times 3.14 \div 2 = 39.25$

2

(1)	14.13	cm ²
(2)	39.25	cm ²
(3)	100.48	cm ²

2 (1) $3 \times 3 \times 3.14 \div 2 = 14.13$

(2) $10 \times 10 \times 3.14 \div 4 - 5 \times 5 \times 3.14 \div 2$
 $= (10 \times 10 \div 4 - 5 \times 5 \div 2) \times 3.14$
 $= 12.5 \times 3.14$
 $= 39.25$

(3) $6 \times 6 \times 3.14 - 2 \times 2 \times 3.14$
 $= (36 - 4) \times 3.14$
 $= 32 \times 3.14$
 $= 100.48$



1

(1)	12.56	cm ²
(2)	113.04	cm ²

[解 説]

1 (1) $4 \times 4 \times 3.14 \div 4 = 12.56$

(2) $12 \div 2 = 6$
 $6 \times 6 \times 3.14 = 113.04$

2

(1)	36.48	cm ²
(2)	3.44	cm ²
(3)	39.25	cm ²

2 (1) $8 \times 8 - 8 \times 8 \times 3.14 \div 4 = 13.76$
白い部分の面積は、 $13.76 \times 2 = 27.52$
よって、 $8 \times 8 - 27.52 = 36.48$

(2) $4 \times 4 = 16$
 $2 \times 2 \times 3.14 = 12.56$
 $16 - 12.56 = 3.44$

(3) $5 \times 5 \times 3.14 \div 2 = 39.25$



[解 説]

(1)	$\frac{2}{5}$
(2)	$\frac{4}{3}$
(3)	$\frac{36}{25}$
(4)	$\frac{20}{7}$
(5)	$\frac{2}{7}$
(6)	$\frac{4}{9}$
(7)	$\frac{1}{36}$
(8)	$\frac{4}{35}$
(9)	$\frac{11}{3}$
(10)	$\frac{5}{14}$

$$(1) \frac{5}{6} \times \frac{12}{25} = \frac{\overset{1}{\cancel{5}} \times \overset{2}{\cancel{12}}}{\underset{1}{\cancel{6}} \times 25} = \frac{2}{5}$$

$$(2) 3 \times \frac{4}{9} = \frac{\overset{1}{\cancel{3}}}{1} \times \frac{4}{\underset{3}{\cancel{9}}} = \frac{\overset{1}{\cancel{3}} \times 4}{1 \times \underset{3}{\cancel{9}}} = \frac{4}{3}$$

$$(3) \frac{9}{25} \times 4 \frac{2}{7} \times \frac{14}{15} = \frac{9}{25} \times \frac{30}{7} \times \frac{14}{15} = \frac{\overset{3}{\cancel{9}} \times \overset{6}{\cancel{30}} \times \overset{2}{\cancel{14}}}{\underset{5}{\cancel{25}} \times \underset{1}{\cancel{7}} \times \underset{5}{\cancel{15}}} = \frac{36}{25}$$

$$(4) \frac{24}{7} \div \frac{6}{5} = \frac{24}{7} \times \frac{5}{6} = \frac{\overset{4}{\cancel{24}} \times 5}{7 \times \underset{1}{\cancel{6}}} = \frac{20}{7}$$

$$(5) \frac{10}{21} \div 1 \frac{2}{3} = \frac{10}{21} \div \frac{5}{3} = \frac{10}{21} \times \frac{3}{5} = \frac{\overset{2}{\cancel{10}} \times \overset{1}{\cancel{3}}}{\underset{7}{\cancel{21}} \times \underset{1}{\cancel{5}}} = \frac{2}{7}$$

$$(6) \frac{7}{11} \times \frac{22}{35} \div \frac{9}{10} = \frac{7}{11} \times \frac{22}{35} \times \frac{10}{9} = \frac{\overset{1}{\cancel{7}} \times \overset{2}{\cancel{22}} \times \overset{2}{\cancel{10}}}{\underset{1}{\cancel{11}} \times \underset{5}{\cancel{35}} \times 9} = \frac{4}{9}$$

$$(7) \frac{3}{32} \times \frac{5}{9} \div \frac{15}{8} = \frac{3}{32} \times \frac{5}{9} \times \frac{8}{15} = \frac{\overset{1}{\cancel{3}} \times \overset{1}{\cancel{5}} \times \overset{1}{\cancel{8}}}{\underset{4}{\cancel{32}} \times \underset{3}{\cancel{9}} \times \underset{3}{\cancel{15}}} = \frac{1}{36}$$

$$(8) \frac{24}{25} \div 6 \times \frac{5}{7} = \frac{24}{25} \div \frac{6}{1} \times \frac{5}{7} = \frac{24}{25} \times \frac{1}{6} \times \frac{5}{7} = \frac{\overset{4}{\cancel{24}} \times \overset{1}{\cancel{1}} \times \overset{1}{\cancel{5}}}{\underset{5}{\cancel{25}} \times \underset{1}{\cancel{6}} \times 7} = \frac{4}{35}$$

$$(9) \left(\frac{2}{5} + \frac{7}{10} \right) \times \frac{10}{3} = \frac{2}{5} \times \frac{10}{3} + \frac{7}{10} \times \frac{10}{3} = \frac{\overset{2}{\cancel{2}} \times \overset{2}{\cancel{10}}}{\underset{1}{\cancel{5}} \times 3} + \frac{\overset{1}{\cancel{7}} \times \overset{1}{\cancel{10}}}{\underset{1}{\cancel{10}} \times 3} = \frac{4}{3} + \frac{7}{3} = \frac{11}{3}$$

$$(10) \frac{9}{7} \times \frac{5}{12} - \frac{3}{7} \times \frac{5}{12} = \left(\frac{9}{7} - \frac{3}{7} \right) \times \frac{5}{12} = \frac{6}{7} \times \frac{5}{12} = \frac{\overset{1}{\cancel{6}} \times 5}{\underset{2}{\cancel{7}} \times \underset{2}{\cancel{12}}} = \frac{5}{14}$$



[解 説]

(1)	$\frac{1}{12}$
(2)	$\frac{13}{2}$
(3)	$\frac{11}{14}$
(4)	$\frac{3}{5}$
(5)	$\frac{1}{24}$
(6)	$\frac{2}{9}$
(7)	$\frac{9}{4}$
(8)	$\frac{2}{25}$
(9)	$\frac{9}{7}$
(10)	$\frac{3}{20}$

$$(1) \frac{7}{18} \times \frac{3}{14} = \frac{\overset{1}{\cancel{7}} \times \overset{1}{\cancel{3}}}{\underset{6}{18} \times \underset{2}{14}} = \frac{1}{12}$$

$$(2) 5 \times \frac{13}{10} = \frac{5}{1} \times \frac{13}{10} = \frac{\overset{1}{\cancel{5}} \times 13}{1 \times \underset{2}{\cancel{10}}} = \frac{13}{2}$$

$$(3) \frac{11}{15} \times \frac{3}{7} \times 2\frac{1}{2} = \frac{11}{15} \times \frac{3}{7} \times \frac{5}{2} = \frac{11 \times \overset{1}{\cancel{3}} \times \overset{1}{\cancel{5}}}{\underset{3}{15} \times 7 \times 2} = \frac{11}{14}$$

$$(4) \frac{5}{12} \div \frac{25}{36} = \frac{5}{12} \times \frac{36}{25} = \frac{\overset{1}{\cancel{5}} \times \overset{3}{\cancel{36}}}{\underset{1}{12} \times \underset{5}{25}} = \frac{3}{5}$$

$$(5) \frac{3}{32} \div 2\frac{1}{4} = \frac{3}{32} \div \frac{9}{4} = \frac{3}{32} \times \frac{4}{9} = \frac{\overset{1}{\cancel{3}} \times \overset{1}{\cancel{4}}}{\underset{8}{32} \times \underset{3}{9}} = \frac{1}{24}$$

$$(6) \frac{2}{7} \times \frac{14}{33} \div \frac{6}{11} = \frac{2}{7} \times \frac{14}{33} \times \frac{11}{6} = \frac{\overset{1}{\cancel{2}} \times \overset{2}{\cancel{14}} \times \overset{1}{\cancel{11}}}{\underset{1}{7} \times \underset{3}{33} \times \underset{3}{6}} = \frac{2}{9}$$

$$(7) \frac{15}{26} \div \frac{4}{13} \times \frac{6}{5} = \frac{15}{26} \times \frac{13}{4} \times \frac{6}{5} = \frac{\overset{3}{\cancel{15}} \times \overset{1}{\cancel{13}} \times \overset{3}{\cancel{6}}}{\underset{2}{26} \times \underset{2}{4} \times \underset{1}{5}} = \frac{9}{4}$$

$$(8) \frac{24}{35} \times \frac{7}{12} \div 5 = \frac{24}{35} \times \frac{7}{12} \div \frac{5}{1} = \frac{24}{35} \times \frac{7}{12} \times \frac{1}{5} = \frac{\overset{2}{\cancel{24}} \times \overset{1}{\cancel{7}} \times 1}{\underset{5}{35} \times \underset{1}{12} \times 5} = \frac{2}{25}$$

$$(9) \left(\frac{2}{3} + \frac{5}{6}\right) \times \frac{6}{7} = \frac{2}{3} \times \frac{6}{7} + \frac{5}{6} \times \frac{6}{7} = \frac{\overset{2}{\cancel{2}} \times \overset{2}{\cancel{6}}}{\underset{1}{3} \times 7} + \frac{\overset{1}{\cancel{5}} \times \overset{1}{\cancel{6}}}{\underset{1}{6} \times 7} = \frac{4}{7} + \frac{5}{7} = \frac{9}{7}$$

$$(10) \frac{7}{5} \times \frac{3}{16} - \frac{3}{5} \times \frac{3}{16} = \left(\frac{7}{5} - \frac{3}{5}\right) \times \frac{3}{16} = \frac{4}{5} \times \frac{3}{16} = \frac{\overset{1}{\cancel{4}} \times 3}{\underset{4}{5} \times \underset{4}{16}} = \frac{3}{20}$$