

ドリルプリント 1年生「円とおうぎ形」 NO. 1 【解答】

◆次の円の、円周と面積を求めよ。

<p>①</p> <p>円周 $2\pi \times 3$ $= 6\pi(\text{cm})$</p> <p>面積 $\pi \times 3 \times 3$ $= 9\pi(\text{cm}^2)$</p>	<p>②</p> <p>円周 $2\pi \times 5$ $= 10\pi(\text{cm})$</p> <p>面積 $\pi \times 5 \times 5$ $= 25\pi(\text{cm}^2)$</p>	<p>③</p> <p>円周 $2\pi \times 6$ $= 12\pi(\text{cm})$</p> <p>面積 $\pi \times 6 \times 6$ $= 36\pi(\text{cm}^2)$</p>	<p>④</p> <p>円周 $2\pi \times 7$ $= 14\pi(\text{cm})$</p> <p>面積 $\pi \times 7 \times 7$ $= 49\pi(\text{cm}^2)$</p>
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◆次のおうぎ形の、弧の長さとおうぎ形の面積を求めよ。

<p>⑤</p> <p>弧 $2\pi \times 6 \times \frac{30}{360}$ $= 2\pi \times 6 \times \frac{1}{12}$ $= \pi(\text{cm})$</p> <p>面積 $\pi \times 6 \times 6 \times \frac{30}{360}$ $= \pi \times 6 \times 6 \times \frac{1}{12}$ $= 3\pi(\text{cm}^2)$</p>	<p>⑥</p> <p>弧 $2\pi \times 10 \times \frac{36}{360}$ $= 2\pi \times 10 \times \frac{1}{10}$ $= \pi(\text{cm})$</p> <p>面積 $\pi \times 10 \times 10 \times \frac{36}{360}$ $= \pi \times 10 \times 10 \times \frac{1}{10}$ $= 10\pi(\text{cm}^2)$</p>	<p>⑦</p> <p>弧 $2\pi \times 9 \times \frac{40}{360}$ $= 2\pi \times 9 \times \frac{1}{9}$ $= 2\pi(\text{cm})$</p> <p>面積 $\pi \times 9 \times 9 \times \frac{40}{360}$ $= \pi \times 9 \times 9 \times \frac{1}{9}$ $= 9\pi(\text{cm}^2)$</p>	<p>⑧</p> <p>弧 $2\pi \times 12 \times \frac{45}{360}$ $= 2\pi \times 12 \times \frac{1}{8}$ $= 3\pi(\text{cm})$</p> <p>面積 $\pi \times 12 \times 12 \times \frac{45}{360}$ $= \pi \times 12 \times 12 \times \frac{1}{8}$ $= 18\pi(\text{cm}^2)$</p>
<p>⑨</p> <p>弧 $2\pi \times 12 \times \frac{60}{360}$ $= 2\pi \times 12 \times \frac{1}{6}$ $= 4\pi(\text{cm})$</p> <p>面積 $\pi \times 12 \times 12 \times \frac{60}{360}$ $= \pi \times 12 \times 12 \times \frac{1}{6}$ $= 24\pi(\text{cm}^2)$</p>	<p>⑩</p> <p>弧 $2\pi \times 10 \times \frac{72}{360}$ $= 2\pi \times 10 \times \frac{1}{5}$ $= 4\pi(\text{cm})$</p> <p>面積 $\pi \times 10 \times 10 \times \frac{72}{360}$ $= \pi \times 10 \times 10 \times \frac{1}{5}$ $= 20\pi(\text{cm}^2)$</p>	<p>⑪</p> <p>弧 $2\pi \times 9 \times \frac{80}{360}$ $= 2\pi \times 9 \times \frac{1}{9}$ $= 2\pi(\text{cm})$</p> <p>面積 $\pi \times 9 \times 9 \times \frac{80}{360}$ $= \pi \times 9 \times 9 \times \frac{1}{9}$ $= 9\pi(\text{cm}^2)$</p>	<p>⑫</p> <p>弧 $2\pi \times 8 \times \frac{90}{360}$ $= 2\pi \times 8 \times \frac{1}{4}$ $= 4\pi(\text{cm})$</p> <p>面積 $\pi \times 8 \times 8 \times \frac{90}{360}$ $= \pi \times 8 \times 8 \times \frac{1}{4}$ $= 16\pi(\text{cm}^2)$</p>
<p>⑬</p> <p>弧 $2\pi \times 10 \times \frac{108}{360}$ $= 2\pi \times 10 \times \frac{3}{10}$ $= 6\pi(\text{cm})$</p> <p>面積 $\pi \times 10 \times 10 \times \frac{108}{360}$ $= \pi \times 10 \times 10 \times \frac{3}{10}$ $= 30\pi(\text{cm}^2)$</p>	<p>⑭</p> <p>弧 $2\pi \times 6 \times \frac{120}{360}$ $= 2\pi \times 6 \times \frac{1}{3}$ $= 4\pi(\text{cm})$</p> <p>面積 $\pi \times 6 \times 6 \times \frac{120}{360}$ $= \pi \times 6 \times 6 \times \frac{1}{3}$ $= 12\pi(\text{cm}^2)$</p>	<p>⑮</p> <p>弧 $2\pi \times 4 \times \frac{135}{360}$ $= 2\pi \times 4 \times \frac{3}{8}$ $= 3\pi(\text{cm})$</p> <p>面積 $\pi \times 4 \times 4 \times \frac{135}{360}$ $= \pi \times 4 \times 4 \times \frac{3}{8}$ $= 6\pi(\text{cm}^2)$</p>	<p>⑯</p> <p>弧 $2\pi \times 10 \times \frac{144}{360}$ $= 2\pi \times 10 \times \frac{2}{5}$ $= 8\pi(\text{cm})$</p> <p>面積 $\pi \times 10 \times 10 \times \frac{144}{360}$ $= \pi \times 10 \times 10 \times \frac{2}{5}$ $= 40\pi(\text{cm}^2)$</p>
<p>⑰</p> <p>弧 $2\pi \times 6 \times \frac{150}{360}$ $= 2\pi \times 6 \times \frac{5}{12}$ $= 5\pi(\text{cm})$</p> <p>面積 $\pi \times 6 \times 6 \times \frac{150}{360}$ $= \pi \times 6 \times 6 \times \frac{5}{12}$ $= 15\pi(\text{cm}^2)$</p>	<p>⑱</p> <p>弧 $2\pi \times 10 \times \frac{216}{360}$ $= 2\pi \times 10 \times \frac{3}{5}$ $= 12\pi(\text{cm})$</p> <p>面積 $\pi \times 10 \times 10 \times \frac{216}{360}$ $= \pi \times 10 \times 10 \times \frac{3}{5}$ $= 60\pi(\text{cm}^2)$</p>	<p>⑲</p> <p>弧 $2\pi \times 8 \times \frac{225}{360}$ $= 2\pi \times 8 \times \frac{5}{8}$ $= 10\pi(\text{cm})$</p> <p>面積 $\pi \times 8 \times 8 \times \frac{225}{360}$ $= \pi \times 8 \times 8 \times \frac{5}{8}$ $= 40\pi(\text{cm}^2)$</p>	<p>⑳</p> <p>弧 $2\pi \times 9 \times \frac{240}{360}$ $= 2\pi \times 9 \times \frac{2}{3}$ $= 12\pi(\text{cm})$</p> <p>面積 $\pi \times 9 \times 9 \times \frac{240}{360}$ $= \pi \times 9 \times 9 \times \frac{2}{3}$ $= 54\pi(\text{cm}^2)$</p>