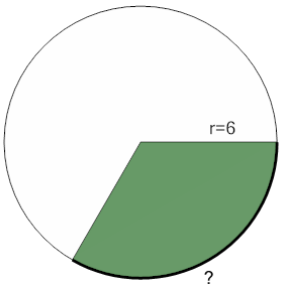
Name

# Area of a Circle Sector From Area to Arc Length (Equation)

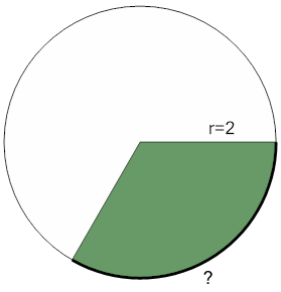
**1**




Find the arc length of the green shaded sector with area 12 π in a circle of radius 6

| | | | |
|---|---|---|---|
| A | $\frac{3}{2}\pi$ | B | $4\pi$ |
| C | $10\pi$ | D | $\frac{2}{7}\pi$ |
| E | $\frac{5}{4}\pi$ | | |

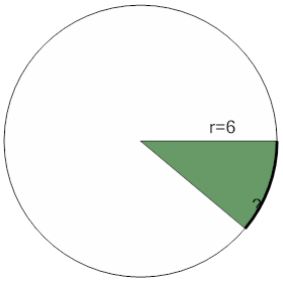
**2**




Find the arc length of the green shaded sector with area 4/3 π in a circle of radius 2

| | | | |
|---|---|---|---|
| A | $\frac{4}{4}\pi$ | B | $\frac{1}{3}\pi$ |
| C | $\frac{7}{12}\pi$ | D | $\frac{5}{8}\pi$ |
| E | $\frac{4}{3}\pi$ | | |

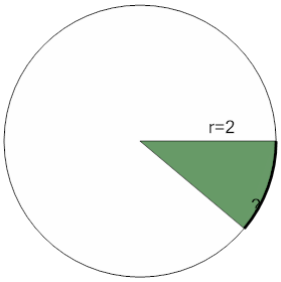
**3**




Find the arc length of the green shaded sector with area 4 π in a circle of radius 6

| | | | |
|---|---|---|---|
| A | $\frac{2}{9}\pi$ | B | $1\pi$ |
| C | $\frac{2}{3}\pi$ | D | $\frac{14}{15}\pi$ |
| E | $\frac{4}{3}\pi$ | | |

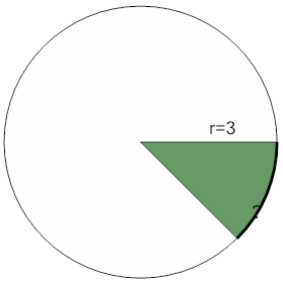
**4**




Find the arc length of the green shaded sector with area 4/9 π in a circle of radius 2

| | | | |
|---|---|---|---|
| A | $\frac{9}{16}\pi$ | B | $\frac{7}{12}\pi$ |
| C | $\frac{4}{9}\pi$ | D | $\frac{2}{17}\pi$ |
| E | $\frac{5}{11}\pi$ | | |

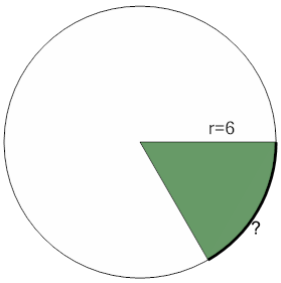
**5**




Find the arc length of the green shaded sector with area 9/8 π in a circle of radius 3

| | | | |
|---|---|---|---|
| A | $\frac{9}{14}\pi$ | B | $\frac{2}{3}\pi$ |
| C | $\frac{5}{7}\pi$ | D | $\frac{3}{4}\pi$ |
| E | $\frac{2}{5}\pi$ | | |

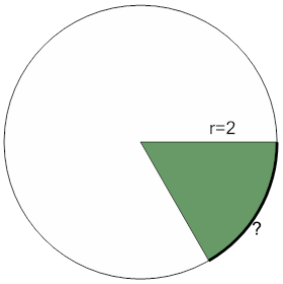
**6**




Find the arc length of the green shaded sector with area 6 π in a circle of radius 6

| | | | |
|---|---|---|---|
| A | $\frac{1}{4}\pi$ | B | $10\pi$ |
| C | $\frac{19}{4}\pi$ | D | $2\pi$ |
| E | $\frac{13}{5}\pi$ | | |

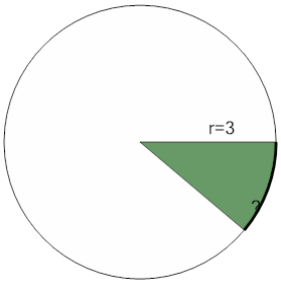
**7**




Find the arc length of the green shaded sector with area 2/3 π in a circle of radius 2

| | | | |
|---|---|---|---|
| A | $\frac{1}{2}\pi$ | B | $\frac{2}{5}\pi$ |
| C | $\frac{7}{3}\pi$ | D | $\frac{8}{11}\pi$ |
| E | $\frac{2}{3}\pi$ | | |

**8**




Find the arc length of the green shaded sector with area 1 π in a circle of radius 3

| | | | |
|---|---|---|---|
| A | $\frac{9}{14}\pi$ | B | $5\pi$ |
| C | $\frac{1}{17}\pi$ | D | $\frac{2}{3}\pi$ |
| E | $\frac{9}{7}\pi$ | | |