

Four Fours: Arc Length and Sector Area

Sort the 16 cards into **four groups of four** that give the same number. Write the letters in each group, then the answer in terms of π .

A

Sector area
radius 4, 90°

B

Arc length
radius 6, 90°

C

Arc length
radius 6, 120°

D

Arc length
radius 4, 90°

E

Arc length
radius 6, 60°

F

Sector area
radius 6, 40°

G

Sector area
radius 3, 120°

H

Arc length
radius 12, 90°

I

Arc length
radius 9, 120°

J

Arc length
radius 9, 60°

K

Sector area
radius 2, 180°

L

Arc length
radius 8, 90°

M

Sector area
radius 4, 45°

N

Sector area
radius 6, 60°

O

Sector area
radius 6, 30°

P

Sector area
radius 4, 135°

1

D

E

K

M

=

2π

2

B

G

J

O

=

3π

3

A

C

F

L

=

4π

4

H

I

N

P

=

6π

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Arc length
radius 6, 90°

C

Arc length
radius 6, 120°

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Arc length
radius 4, 90°

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Arc length
radius 6, 60°

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Sector area
radius 6, 40°

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Sector area
radius 3, 120°

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Arc length
radius 12, 90°

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Arc length
radius 9, 120°

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Arc length
radius 9, 60°

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Sector area
radius 2, 180°

L

Arc length
radius 8, 90°

M

Sector area
radius 4, 45°

N

Sector area
radius 6, 60°

O

Sector area
radius 6, 30°

P

Sector area
radius 4, 135°

1

D

E

K

M

=

2π

2

B

G

J

O

=

3π

3

A

C

F

L

=

4π

4

H

I

N

P

=

6π