



Pi: Reciting Pi

NAME:

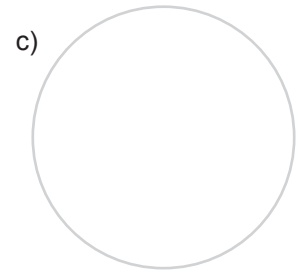
CLASS:

DATE:

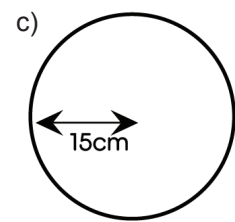
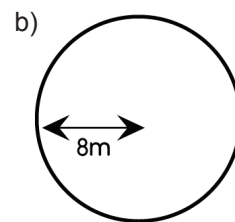
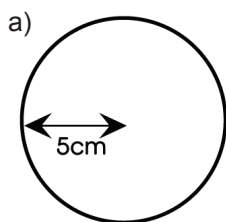


Basic/Core

1) Measure the diameter of each of these circles and calculate their circumference and area:



2) Calculate the circumference and area of the following circles:



3) Express these decimals as fractions:

a) 0.3

b) 0.9

c) 0.21

d) 2.7



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Basic/Core

4) Express these fractions as decimals:

a) $\frac{9}{10}$

b) $\frac{3}{8}$

c) $\frac{17}{20}$

d) $2\frac{9}{40}$

5) Express these fractions as decimals:

a) $\frac{2}{3}$

b) $\frac{5}{7}$

c) $\frac{8}{9}$

d) $\frac{22}{7}$

6) Calculate:

a) $3^2 + 5^2$

b) $7^2 - 6^2$

c) $5^3 - 5^2$

d) $3^3 + 2^2 - 1^3$

7) Calculate:

a) $\sqrt{49}$

b) $\sqrt{144}$

c) $\sqrt[3]{125}$

d) $\sqrt[3]{27}$

8) Calculate:

a) $\sqrt{58}$

b) $\sqrt{131}$

c) $\sqrt[3]{17}$

d) $\sqrt[3]{101}$

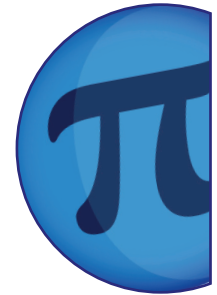


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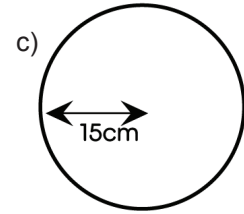
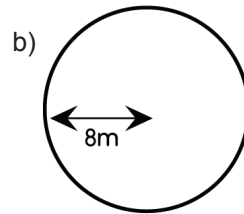
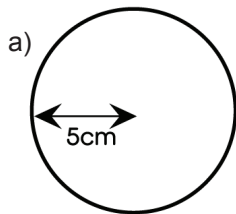
CLASS:

DATE:



Advanced

1) Measure the diameter of each of these circles and calculate their circumference and area:



2) Express these fractions as decimals:

a) $\frac{9}{10}$

b) $\frac{3}{8}$

c) $\frac{17}{20}$

d) $2\frac{9}{40}$

3) Express these fractions as decimals:

a) $\frac{2}{3}$

b) $\frac{5}{7}$

c) $\frac{8}{9}$

d) $\frac{22}{7}$

4) Calculate:

a) $\sqrt{49}$

b) $\sqrt{144}$

c) $\sqrt[3]{125}$

d) $\sqrt[3]{27}$

5) Calculate:

a) $\sqrt{58}$

b) $\sqrt{131}$

c) $\sqrt[3]{17}$

d) $\sqrt[3]{101}$

6) Simplify:

a) $5\pi + 7\pi$

b) $10\pi - 4\pi$

c) $\frac{2\pi + \pi}{5} \frac{\pi}{5}$

d) $\frac{4\pi + 2\pi}{3} \frac{\pi}{3}$



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ANSWERS

Basic/Core

- | | | | |
|-----------------------------------|-----------------------------|-------------------------------|--------------------|
| 1) a) 2.2cm | b) 2.6cm | c) 3.2cm | |
| 2) a) 31.4cm, 78.5cm ² | b) 50.2m, 201m ² | c) 94.2cm, 708cm ² | |
| 3) a) $\frac{3}{10}$ | b) $\frac{9}{10}$ | c) $\frac{21}{100}$ | d) $2\frac{7}{10}$ |
| 4) a) 0.9 | b) 0.375 | c) 0.85 | d) 2.225 |
| 5) a) 0.6666... | b) 0.7142... | c) 0.8888... | d) 3.1428... |
| 6) a) 34 | b) 13 | c) 100 | d) 30 |
| 7) a) 7 | b) 12 | c) 5 | d) 3 |
| 8) a) 7.6157... | b) 11.4455... | c) 2.5712... | d) 4.6570... |

Advanced

- | | | | |
|-----------------------------------|-----------------------------|-------------------------------|--------------|
| 1) a) 31.4cm, 78.5cm ² | b) 50.2m, 201m ² | c) 94.2cm, 708cm ² | |
| 2) a) 0.9 | b) 0.375 | c) 0.85 | d) 2.225 |
| 3) a) 0.6666... | b) 0.7142... | c) 0.8888... | d) 3.1428... |
| 4) a) 7 | b) 12 | c) 5 | d) 3 |
| 5) a) 7.6157... | b) 11.4455... | c) 2.5712... | d) 4.6570... |
| 6) a) 12π | b) 6π | c) $3\pi/5$ | d) 2π |