# Master Maths 10 Worksheet 57
# Trigonometry 1 - Angles

57

***Name***: _____

**1.** Complete the following table converting between degrees and degrees, minutes and seconds.

| Decimal Degrees | Degrees, minutes and seconds |
|---|---|
| $8.5^{o}$ | |
| $23.9^{o}$ | |
| $0.25^{o}$ | |
| $34.35^{o}$ | |
| $66.23^{o}$ | |
| $45.68^{o}$ | |
| $71.81^{o}$ | |
| $39.231^{o}$ | |
| $84.757^{o}$ | |
| | $54^{o}24'$ |
| | $54'$ |
| | $27^{o}33'$ |
| | $48^{o}25'30"$ |
| | $23^{o}35'51"$ |
| | $67^{o}36"$ |
| | $82^{o}45'22.32"$ |
| | $61^{o}33'52.92"$ |
| | $32^{o}28.44"$ |

**2.** Convert the following angles from degrees to radians.
Write answer as a:
(i) fraction in its simplest form.
(ii) decimal correct to two decimal places.

(a) $30^{o}$ (b) $78^{o}$

(i) ☐ (ii) ☐

(i) ☐ (ii) ☐

(c) $210^{o}$ (d) $324^{o}$

(i) ☐ (ii) ☐

(i) ☐ (ii) ☐

**3.** Convert the following angles from radians to degrees.

(a) $\frac{3\pi}{10}^{c}$ (b) $\frac{8\pi}{9}^{c}$

☐ ☐

**4.** Convert the following angles from radians to degrees.
Give answers correct to two decimal places.

(a) $0.74^{c}$ (b) $2.53^{c}$

☐ ☐

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