## Review and Feedback

## Q1) Find $x(2 d p)$ :


$\square$ You can find the hypotenuse. (A01)

Name:

Q2) Find $x$ to the nearest $c m$ :
You can find the shorter side (A01)

## Q3) Find the area of this triangle



$\square$You can do 2 steps Pythagoras problem.(A01)

Q4) Find perimeter of this triangle


$\square$
You can do 2 steps Pythagoras problem. (A01)

Q5) Here are lengths of sides of four triangles. Which triangle is right-angled?
(A) $5 \mathrm{~cm}, 12 \mathrm{~cm}, 17 \mathrm{~cm}$
(B) $11 \mathrm{~cm}, 11 \mathrm{~cm}, 18 \mathrm{~cm}$
(C) $5 \mathrm{~cm}, 6 \mathrm{~cm}, 7 \mathrm{~cm}$
(D) $21 \mathrm{~cm}, 28 \mathrm{~cm}, 35 \mathrm{~cm}$
$\square$ You can do reasoning problem (A02).

Q6) Calculate the distance between $A$ and $B$.
You can solve more complex problem.

The diagram shows a rectangle made of wire. Find the total
Q7) length of wire used to make the shape (including the diagonal) to 2 decimal places.

$\square$ You can do problem solving question (A03).

Q8) Calculate the length of side $p$.
Leave your answer in surd form.


You can solve problem with surds.
Teacher's comment ATL Grade:

## Review and Feedback

Q1)
Find $x(2 d p)$ :

$$
a^{2}+b^{2}=c^{2}
$$



$$
\begin{aligned}
9^{2}+12^{2} & =x^{2} \\
81+144 & =x^{2} \\
x^{2} & =225 \\
x & =\sqrt{225} \\
x & =15 \mathrm{~cm}
\end{aligned}
$$

Name:


Q2) Find $x$ to the nearest cm :

$$
\begin{aligned}
a^{2}+b^{2} & =c^{2} \\
x^{2}+6^{2} & =23^{2} \\
x^{2}+36 & =529 \\
(-36) & (-36) \\
x^{2} & =529-36 \\
x^{2} & =493 \\
x & =\sqrt{493}
\end{aligned}
$$


$\square$ You can find the shorter side (A01) $\quad x=22.2 \mathrm{~cm} / 22 \mathrm{~cm}$

Q3) Find the area of this triangle
ANSWER


$$
\begin{aligned}
a^{2}+b^{2} & =c^{2} \\
h^{2}+3^{2} & =11{ }^{2} \\
h^{2}+9 & =121 \\
h^{2} & =121-9 \\
h^{2} & =112 \\
h & =\sqrt{112} \\
h & =10.58
\end{aligned}
$$

$\square$
Area:-
You can do 2 steps Pythagoras problem. (A01)

$$
\frac{b \times h}{2}=\frac{6 \times 10.58}{2}=31.75 \mathrm{~cm}^{2}
$$




Q5) Here are lengths of sides of four triangles.
Which triangle is right-angled?
(A) $5 \mathrm{~cm}, 12 \mathrm{~cm}, 17 \mathrm{~cm} 5^{2}+12^{2} \neq 17^{2}$ hypotenuse. Therefore $\subseteq$.
(B) $11 \mathrm{~cm}, 11 \mathrm{~cm}, 18 \mathrm{~cm}$

$$
11^{2}+11^{2} \neq 18^{2}
$$

$$
a^{2}+b^{2}=c^{2}
$$

(C) $5 \mathrm{~cm}, 6 \mathrm{~cm}, 7 \mathrm{~cm}$

$$
5^{2}+6^{2} \neq 7^{2}
$$

(D) $21 \mathrm{~cm}, 28 \mathrm{~cm}, 35 \mathrm{~cm}$

$$
\left\{\begin{aligned}
21^{2}+28^{2} & =35^{2} \\
441+784 & =1225 \\
1225 & =1225
\end{aligned}\right.
$$You can do reasoning problem (A02).

Q6) Calculate the distance between $A$ and $B$.


$$
\begin{aligned}
5^{2}+5^{2} & =x^{2} \\
25+25 & =x^{2} \\
x^{2} & =50 \\
x & =\sqrt{50} \\
x & =7.07
\end{aligned}
$$You can solve more complex problem.

The diagram shows a rectangle made of wire. Find the ANSWER
Q7) length of wire used to make the shape (including the diagonal) to 2 decimal places.


$$
\begin{aligned}
\text { All wire used } & =11+11+16.7+16.7+20 \\
& =75.4 \mathrm{~cm}
\end{aligned}
$$

$\square$ You can do problem solving question (AO3).

Q8) Calculate the length of side p.

$$
a^{2}+b^{2}=c^{2}
$$



$$
\begin{gathered}
(\sqrt{6})^{2}+(\sqrt{8})^{2}=p^{2} \\
6+8=p^{2} \\
14=p^{2} \\
p=\sqrt{14}
\end{gathered}
$$

$\square$
You can solve problem with surds.
Teacher's comment ATL Grade:

