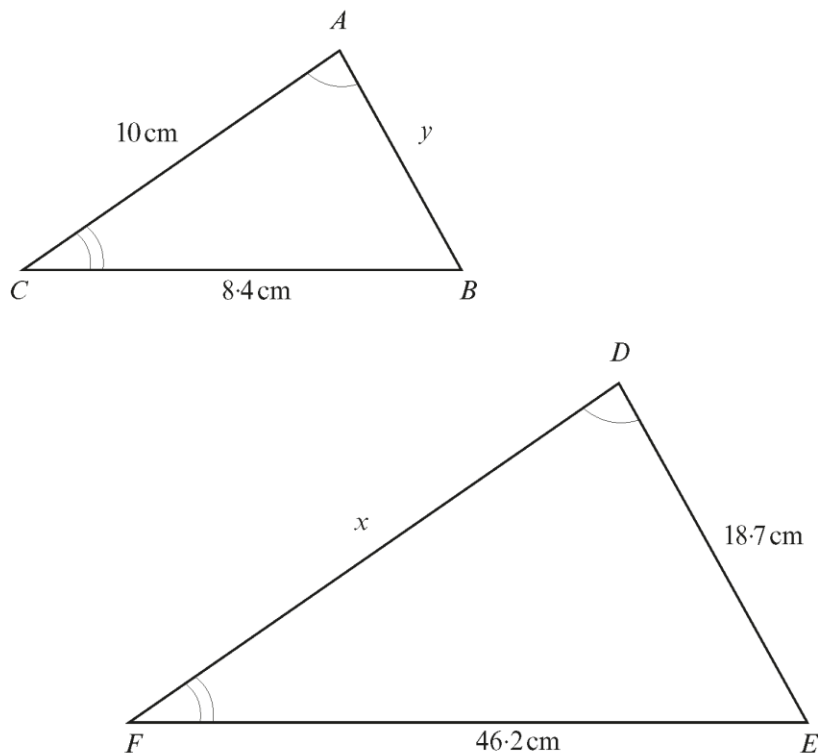


Siapiau Cyflun

1.

Mae'r triongl ABC yn gyflun â'r triongl DEF .



Nid yw'r diagram wedi'i luniadu wrth raddfa

Cyfrifwch hydoedd x ac y .

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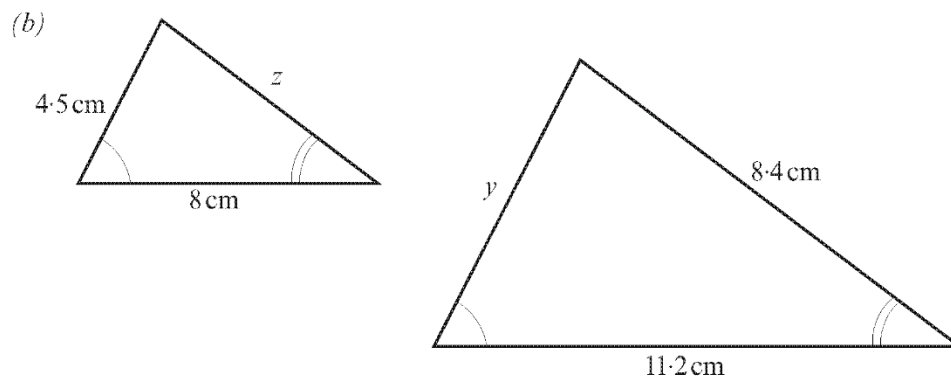
.....

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[4]

2.



Nid yw'r diagram wedi'i luniadu wrth raddfa

Cyfrifwch hydoedd ochrau y a z .

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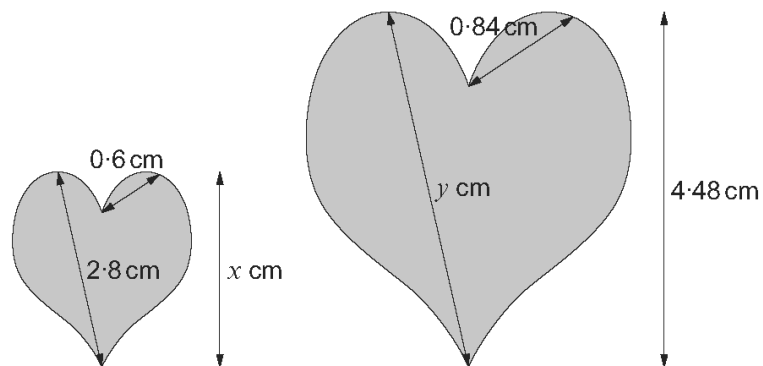
.....

$y =$ cm $z =$ cm

[4]

3.

Mae'r siapiau calon sy'n cael eu dangos isod yn gyflun (*similar*).
Mae nifer o hydoedd cyfatebol yn cael eu dangos.



Nid yw'r diagram wedi'i luniadu wrth raddfa

Cyfrifwch yr hydoedd x ac y .
Rhaid i chi ddangos eich holl waith cyfrifo.

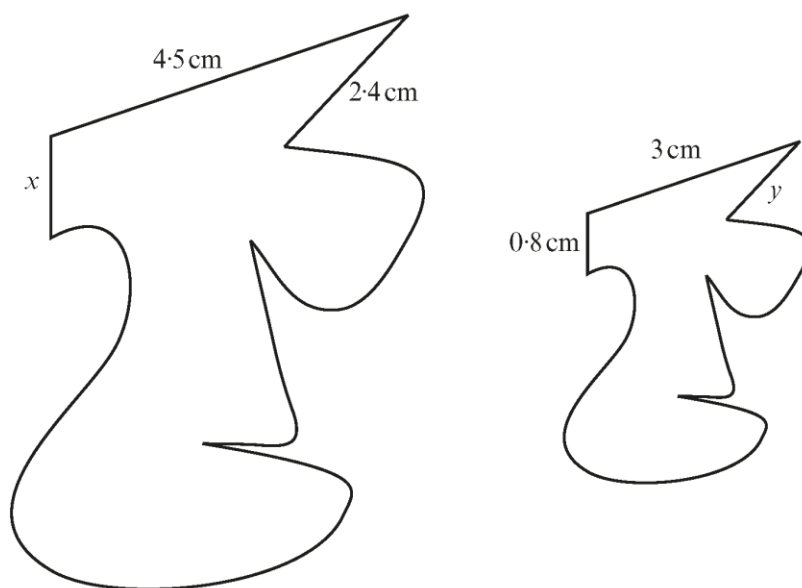
[4]

[illegible]

$x = \dots\dots\dots$ cm $y = \dots\dots\dots$ cm

4.

Mae cwmni Dewi yn cynllunio logo newydd.
Mae'r diagram yn dangos dau fersiwn cyflun (*similar*) o'r logo arfaethedig (*planned*).



Nid yw'r diagram wedi'i luniadu wrth raddfa

(a) Cyfrifwch hydoedd ochrau x ac y .

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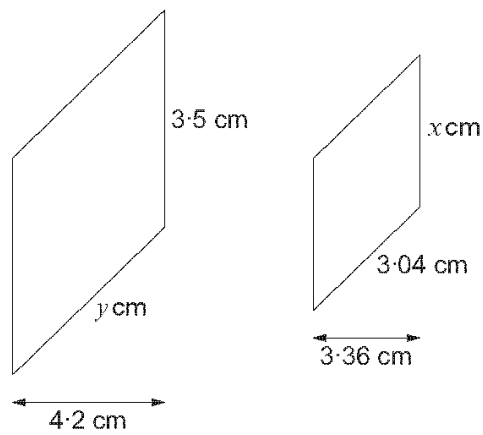
.....

$x = \dots\dots\dots$ cm

$y = \dots\dots\dots$ cm

[4]

Mae'r diagram yn dangos dau siâp cyflun (*similar*).



Cyfrifwch x ac y .

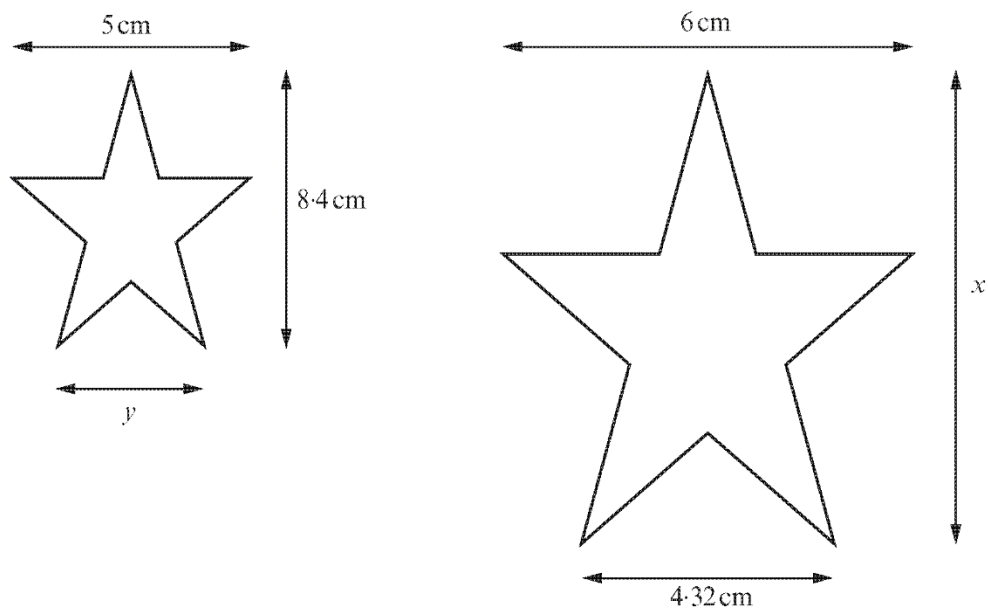
[illegible]

$$x = \text{.....}$$

y = _____

6.

Mae'r sêr sy'n cael eu dangos isod yn gyflun (*similar*).



Nid yw'r diagram wedi'i luniadu wrth raddfa

Gan ddangos eich holl waith cyfrifo, darganfyddwch hydoedd x ac y .

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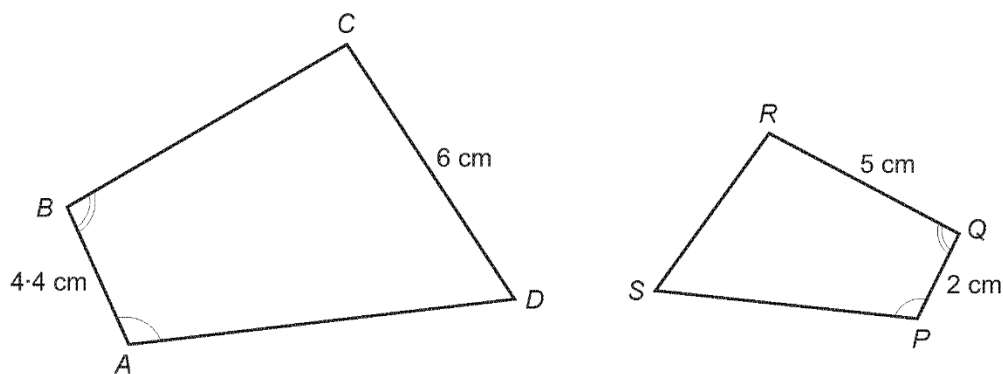
$x =$ cm

$y =$ cm

[4]

7.

Mae'r diagram yn dangos dau bedrochr cyflun (*similar*), $ABCD$ a $PQRS$.



Nid yw'r diagramau wedi'u lluniadu wrth raddfa

(a) Cyfrifwch yr hyd BC .

[2]

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(b) Cyfrifwch yr hyd RS .

[2]

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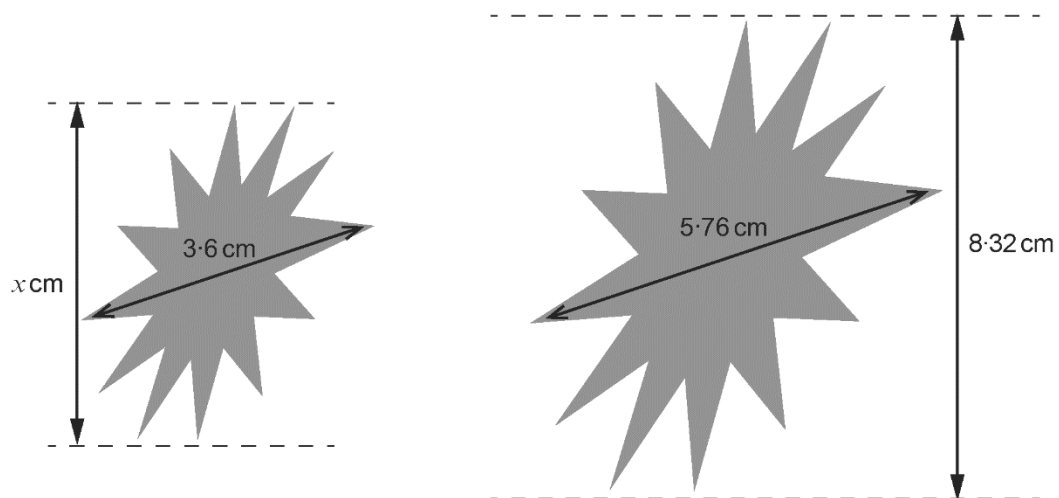
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8.



Nid yw'r diagram wedi'i luniadu wrth raddfa

Mae'r diagram uchod yn dangos dau siâp cyflun (*similar*).

(a) Cyfrifwch yr hyd x .

[2]

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Cynllun Marcio

1.

10. $(x =) (46.2/8.4) \times 10$ (OR 5.5×10) (=) 55(cm) $(y =) 18.7 \div (46.2/8.4)$ (OR $18.7/5.5$) (=) 3.4(cm)	M1 A1 M1 A1	Or alternative full method to find x, x not implicit Or alternative full method to find y, y not implicit Alternatively candidates may refer to scale factor 5.5 throughout
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2.

(b) $y/4.5 = 11.2/8$ $y = 6.3$ (cm) $z/8.4 = 8/11.2$ $z = 6$ (cm)	M1 A1 M1 A1 7	Scale factor $11.2/8 (=1.4)$ used appropriately Scale factor $11.2/8 (=1.4)$ used appropriately
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3.

Methods in Mathematics June 2015 Unit 2 Higher Tier	Mark	Comment
11. $(x =) 4.48 \div 0.84/0.6$ (= $4.48 \div 1.4$) = 3.2 (cm) $(y =) 2.8 \times 0.84/0.6$ or $(y =) 2.8 \times 1.4$ = 3.92(cm)	M1 A1 M1 A1 4	Or calculation that could lead to correct answer Accept answers rounding to 3.2 (but not from inappropriate working) Or calculation that could lead to correct answer Accept answers that round to 3.9(cm) (but not from inappropriate working)

4.

13(a) $x/0.8 = 4.5/3$ OR $x = (4.5/3) \times 0.8$ OR $x = 1.5 \times 0.8$ $x = 1.2$ (cm) $y = (3/4.5) \times 2.4$ OR $y = 2.4/1.5$ OR $y = 2.4 \times 0.8/x$ $y = 1.6$ (cm)	M1 A1 M1 A1	Or equivalent Or equivalent FT their x
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5.

2015 Summer Linear Paper 2 Higher Tier		Comments
7. $3.5/4.2 = x/3.36$ or equivalent correct statement $x = 2.8$ (cm) $y/4.2 = 3.04/3.36$ or equivalent correct statement $y = 3.8$ (cm)	M1 A1 M1 A1	OR appropriate use of scale factor $(\times)0.8$ (or $(\div)1.25$) Do not accept errors from premature approximation OR appropriate use of scale factor $(\div)0.8$ (or $(\times)1.25$) Do not accept errors from premature approximation <i>Accept unlabelled answers if given unambiguously</i>

6.

9. $(x =) 8.4 \times 6/5$ = 10(.08 cm) or 10.1(cm) $(y =) 4.32 / 6/5$ or $(y =) 4.32 \times 5/6$ = 3.6 (cm)	M1 A1 M1 A1 4	Or equivalent calculation that could lead to correct answer Or equivalent calculation that could lead to correct answer
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7.

Ribbon marked. To be viewed with diagram. (a) $5 \times (4.4 \div 2)$ or $5 \div (2 \div 4.4)$ or equivalent = 11 (cm)		M1 A1	
(b) $6 \div (4.4 \div 2)$ or $6 \times (2 \div 4.4)$ or equivalent = 2.7(2727....) (cm)		M1 A1	FT their scale factor from (a).

8.

13.(a) $x/8.32 = 3.6/5.76$ or equivalent or sight of scale	M1	
factor 1.6 or 0.625 if used appropriately ($x =$) 5.2 (cm)	A1	