This problem gives you the chance to:

· use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

This is because television screens are measured by their diagonal line.



This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? 27.2

Show how you know.

$$32^{2} + h^{2} = 42^{2}$$

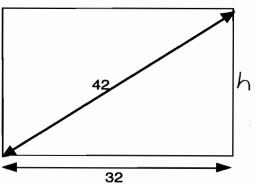
$$1024 + h^{2} = 1764$$

$$h^{2} = 1769 - 1024$$

$$= 740$$

$$h = \sqrt{740}$$

$$= 27.2$$



2. What is the area of the screen?

- 870.4 square inches
- 3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

$$40^{2} + 32^{2} = S^{2}$$

 $1600 + 1029 = 2629$
 $S = \sqrt{2629}$
 $= 51.2$



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· use Pythagoras' theorem

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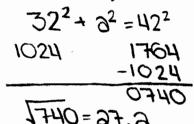


This 42 inch screen measures 32 inches along the base.

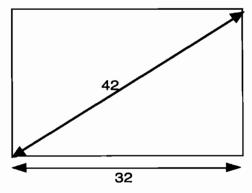
1. What is the height of the screen?

6.76

Show how you know.



hypotenuse Leas



2. What is the area of the screen?

870.4 square inches

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

1280 inches

This problem gives you the chance to:

· use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

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This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? 27.22

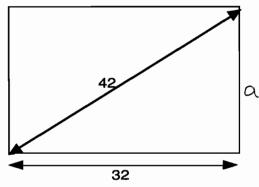
Show how you know.

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

$$32^{2} + b^{2} = 42^{2}$$

$$42^{2} - 32^{2} = b^{2}$$

$$1764 - 1024 = 740$$



1740

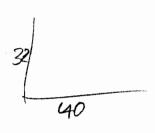
2. What is the area of the screen?

32.×T

100.53 square inches

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

5/2 inches



$$40^{2} + 32^{2} = 1600 \quad 1024$$

$$2624 \quad 51.2$$

This problem gives you the chance to:

· use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

This is because television screens are measured by their diagonal line.

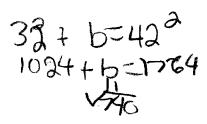


This 42 inch screen measures 32 inches along the base.

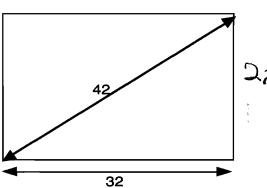
1. What is the height of the screen?

27,2

Show how you know.



3.14



2. What is the area of the screen?

85.40 square inches

3.4x 27,25

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

12861.4 inches

3.14(32°)x4

T5

This problem gives you the chance to:

• use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

This is because television screens are measured by their diagonal line.

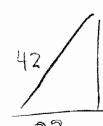


This 42 inch screen measures 32 inches along the base.

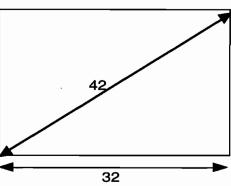
1. What is the height of the screen?

27.20

Show how you know.



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



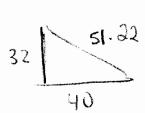
2. What is the area of the screen?

42 - 32 =

1764 square inches

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

abay inches



$$32^{2} + 40^{2} = c^{2}$$

$$c^{2} = 2624$$

$$c = 51.22$$



This problem gives you the chance to:

· use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

This is because television screens are measured by their diagonal line.

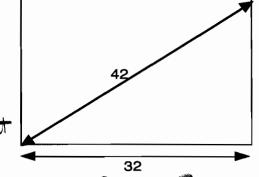


This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen?

1740 = a

Show how you know.



1 wrote the equation but 1 added a variable

for the hierart. I did 322 the oppisite and came,

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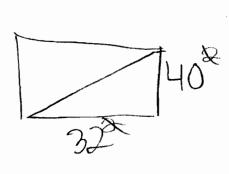
Solution House

2. What is the area of the screen?

 $\frac{1}{42^2} = \frac{3}{4^2} + \frac{1}{4740^2}$

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

51 inches



 $32^2 + 40^2 =$ 1024 + 1600 = 2624 $\sqrt{2624}$

This problem gives you the chance to:

· use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

This is because television screens are measured by their diagonal line.

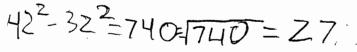


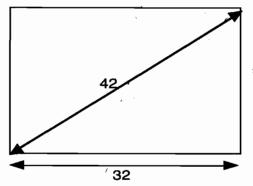
This 42 inch screen measures 32 inches along the base.

<u>_</u>

1. What is the height of the screen? $\frac{27.2}{}$

Show how you know.





2. What is the area of the screen?

807 square inches

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

This problem gives you the chance to:

• use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

This is because television screens are measured by their diagonal line.

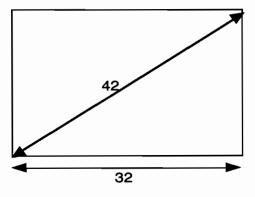


This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? 27.2 ins

Show how you know.

$$R^2 = 42^2 - 37^2$$
= 740



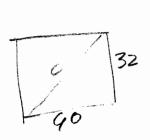
2. What is the area of the screen?

32X27.2

 $32^2 + 90^2 = c^2$

- 8704 square inches
- 3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

S! inches



2629 51.22

This problem gives you the chance to:

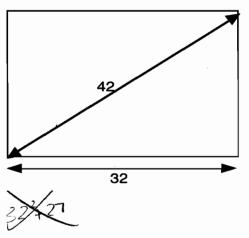
• use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

This is because television screens are measured by their diagonal line.



This 42 inch screen measures 32 inches along the base.



2. What is the area of the screen?

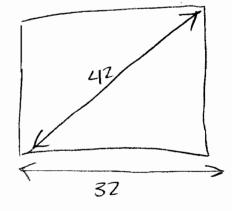
2187.54 square inches

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

 26.2^{2} inches

$$40^2 = 1600$$

 $32^2 = 1024$





This problem gives you the chance to:

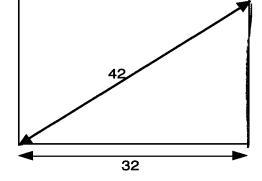
· use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall. This is because television screens are measured by their diagonal line.



This 42 inch screen measures 32 inches along the base.

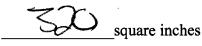
10 in. 1. What is the height of the screen? Show how you know.



132 TO 3 c2-d2=b3 42-32=70

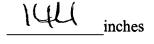
13-32-17

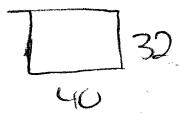
2. What is the area of the screen?



32410=320

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out





40+40+36+32-144



This problem gives you the chance to:

use Pythagoras' theorem

Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall. This is because television screens are measured by their diagonal line.

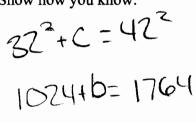


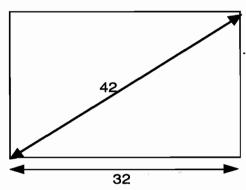
This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen?

0-1740 27.2

Show how you know.



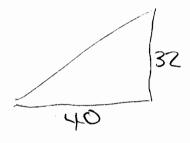


2. What is the area of the screen?

square inches

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

12624 inches



Page 3



 $\langle \ \rangle$

This problem gives you the chance to:

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This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? 27.2

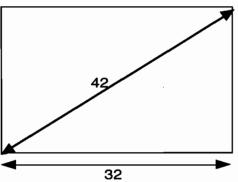
Show how you know.

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

$$32^{2} + a^{2} = 42^{2}$$

$$a^{2} = 8704 - 1024$$

$$a = \sqrt{704}$$



2. What is the area of the screen?

1344 square inches

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

$$30^{2} + 40^{2} - \sqrt{2624}$$

This problem gives you the chance to:

· use Pythagoras' theorem

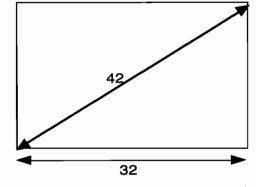
Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

This is because television screens are measured by their diagonal line.



This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? 53 in



Show how you know.

2. What is the area of the screen?

1696 square inches

32×53

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

$$32^{2} + 6^{2} = 40^{2}$$

$$3^{2} + 24^{2} = 40^{2}$$

$$-1024 + 6^{2} = 1600$$

$$-1024$$

$$-1024$$

$$576$$

$$-1576 = 24$$

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This is because television screens are measured by their diagonal line.

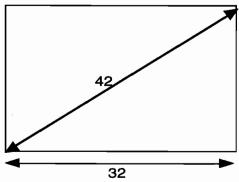


This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? 27.2

Show how you know.

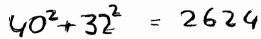
$$42^2 - 32^2 = 740$$



2. What is the area of the screen?

32-27.2

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out



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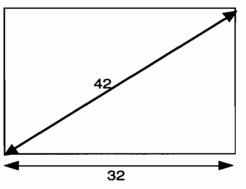


This 42 inch screen measures 32 inches along the base.

24.20 1. What is the height of the screen?

Show how you know.

$$a^{2} + 32^{2} = 42^{2}$$
 $q^{2} + 1024 = 1764$
 $q^{2} = 740$
 $\sqrt{140}$



2. What is the area of the screen?

870.4 square inches

3. Jane would like to have a screen 40 inches wide and 32 inches high. About what size screen will she need to buy? Show how you figured this out

$$\frac{5/\cdot 22}{\circ 7}$$
 inches

$$40^2 + 30^2 = c^2$$

 $1600 + 1024 = c^2$

$$4,0^2 + 30^2 = c^2$$
 = 2624
 $1600 + 1024 = c^2$ $12624 = 51.22$