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.

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

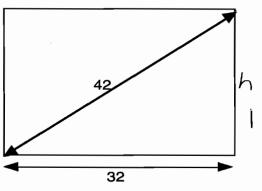
$$1024 + h^{2} = 1764$$

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

$$= 740$$

$$h = \sqrt{740}$$

$$= 27.2$$



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

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

 $1600 + 1029 = 2629$
 $5 = \sqrt{2629}$
 $= 51.2$



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.

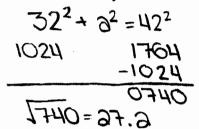


This 42 inch screen measures 32 inches along the base.

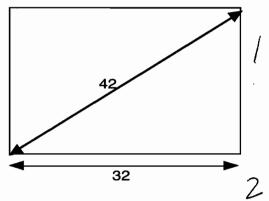
1. What is the height of the screen?

<u>6.F6</u>

Show how you know.



hypotenuse



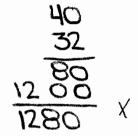
2. What is the area of the screen?

32 • 27.2=870.4

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

<u>1280 X</u> inches 0





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

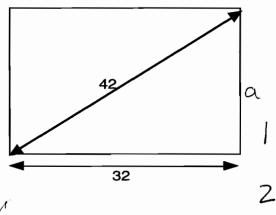
Show how you know.

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

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

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

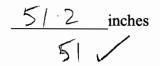
$$1764 - 1024 = 740$$

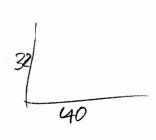


1740

2. What is the area of the screen?

100.53 square inches





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

$$1600 \quad 1024$$

$$2624 \quad 51.2 \quad \checkmark$$

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.

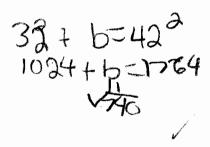


This 42 inch screen measures 32 inches along the base.

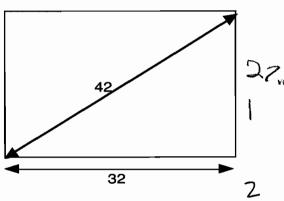
1. What is the height of the screen?

27,2

Show how you know.

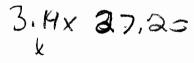


3.14



2. What is the area of the screen?

85.40 square inches





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.

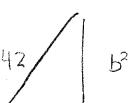


This 42 inch screen measures 32 inches along the base.

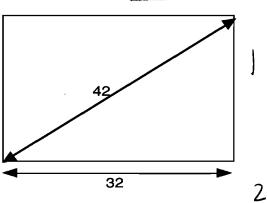
1. What is the height of the screen?

27.20 /

Show how you know.



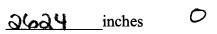
 $a^{a}+b^{a}=c^{a}$

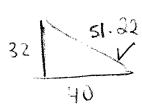


2. What is the area of the screen?

1764 x 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





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

$$c^{2} = 2624 /$$

$$c^{-51.22} /$$

<u>.</u>

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?

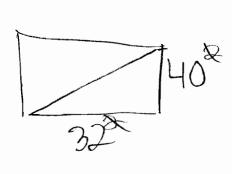
Show how you know.

I wrote the equation but added a variable

for the hieght. I did 27 the oppisite and can

2. What is the area of the screen?

Square 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.

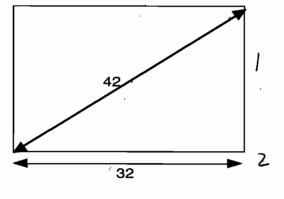
This is because television screens are measured by their diagonal line.



This 42 inch screen measures 32 inches along the base.

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

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

5 inches

0

Y



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.



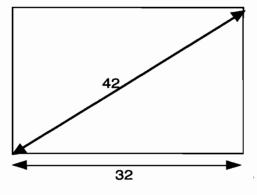
This 42 inch screen measures 32 inches along the base.

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?

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

 $32^{2} + 90^{2} = c^{2}$ 2629 51.22



This problem gives you the chance to:

· use Pythagoras' theorem

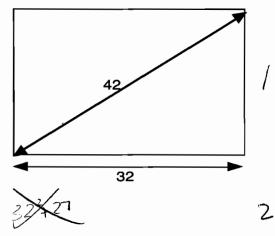
Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

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



This 42 inch screen measures 32 inches along the base.

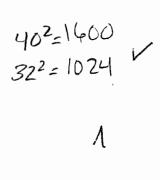
$$42^2 = 1764$$
 $32^2 = 1024$
 740ν

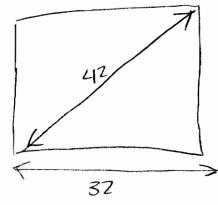


2187.54 square inches

2. What is the area of the screen?

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





 $\frac{26.2^{2}}{\Lambda} \text{ inches}$

This problem gives you the chance to:

· use Pythagoras' theorem

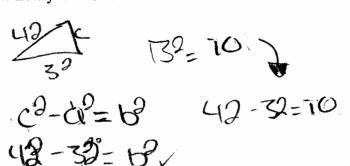
Jane is hoping to buy a large new television for her den, but she is not sure what size screen will be suitable for her wall.

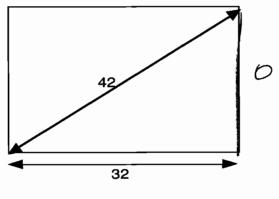
This is because television screens are measured by their diagonal line.



This 42 inch screen measures 32 inches along the base.

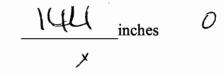
1. What is the height of the screen? \(\frac{10}{10}\).

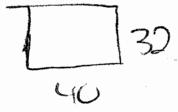


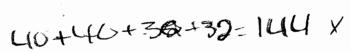


square inches

2. What is the area of the screen?









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.

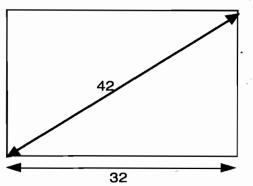
1. What is the height of the screen?

Show how you know.

screen?
$$6 = 1740$$
 27.2

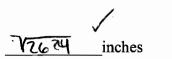
32°+C=42°

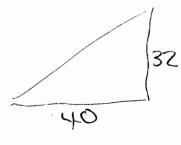
1024+6= 1764



2. What is the area of the screen?

300	× square 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.

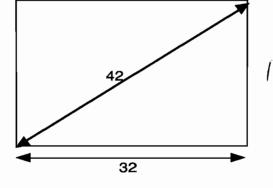
This is because television screens are measured by their diagonal line.



This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? 27.2

Show how you know.



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

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

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

$$a = \sqrt{704}$$

۸ (I)

2. What is the area of the screen?

32.42 =

- 1344 square inches \mathcal{C}
- 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

$$32^{2} + 40^{2} - \sqrt{2624}$$



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.

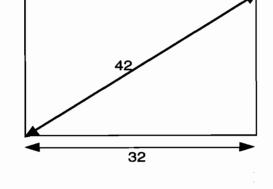


This 42 inch screen measures 32 inches along the base.

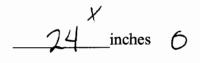
1. What is the height of the screen? 53 in y

Show how you know.

32×53



2. What is the area of the screen?



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

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

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

$$-1024 - 1024$$

$$576$$

$$576 - 24$$

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.

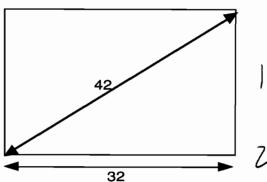
This is because television screens are measured by their diagonal line.



This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? 27.2

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



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

40²+32² = 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.

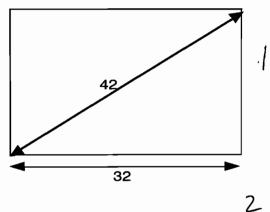


This 42 inch screen measures 32 inches along the base.

1. What is the height of the screen? $\frac{24.20}{}$

Show how you know.

$$a^{2} + 32^{2} = 42^{2}$$
 $q^{2} + 1024 = 1964$
 $q^{2} = 940$
 $\sqrt{940}$



2. What is the area of the screen?

27.20.32

870.4 square inches

$$\frac{5/\cdot 22}{0.5}$$
 inches

$$40^{2} + 30^{2} = c^{2} / = 2624$$
 $1600 + 1024 = c^{2} / \sqrt{12624} = 51.22$