

In the Playground

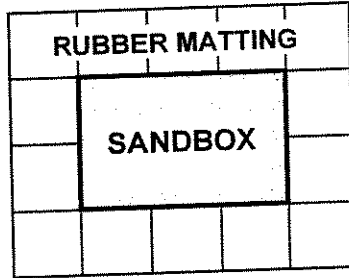
T1

This problem gives you the chance to:

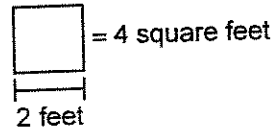
- work with areas

The playground committee decides to make a sandbox area for toddlers. For safety reasons, the sandbox must be surrounded by a strip of rubber matting that is 2 feet wide.

Here is a scale drawing of the sandbox.



SCALE:



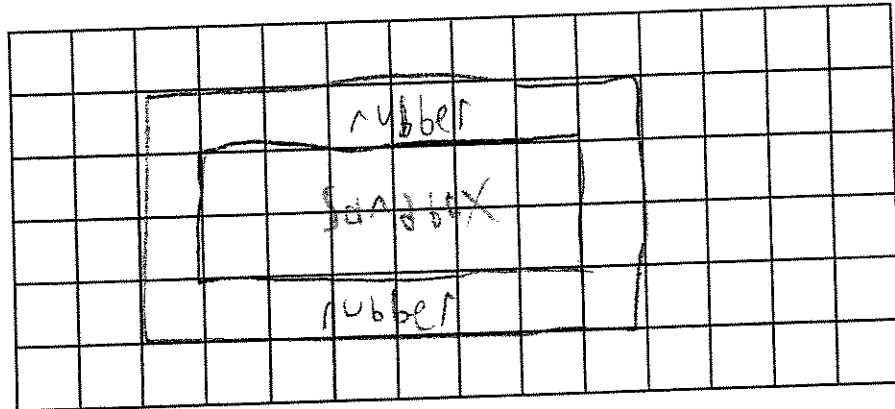
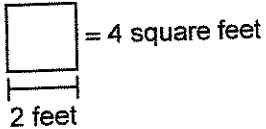
1. Find the area of the sandbox and the area of the rubber matting.

Sandbox area: 24 square feet Rubber matting area: 56 square feet

More children are using the playground, so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need? 80 square feet

4. What is the length and width of the new sandbox?

length 12 feet

width 4 feet

8

8

In the Playground

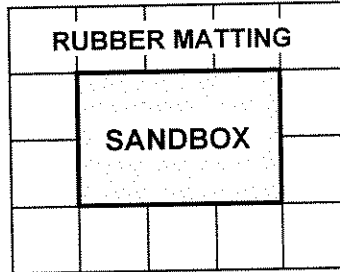
T2

This problem gives you the chance to:

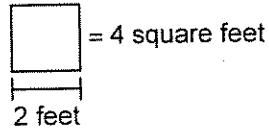
- work with areas

The playground committee decides to make a sandbox area for toddlers. For safety reasons, the sandbox must be surrounded by a strip of rubber matting that is 2 feet wide.

Here is a scale drawing of the sandbox.



SCALE:



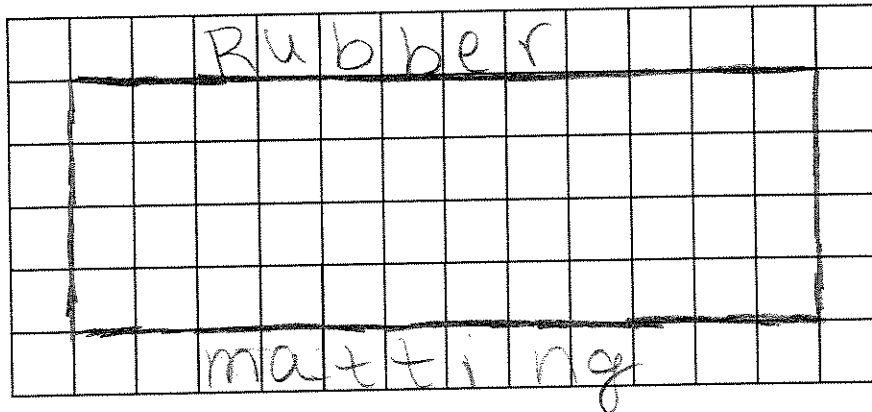
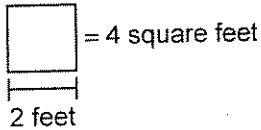
1. Find the area of the sandbox and the area of the rubber matting.

Sandbox area: 80 square feet ✓ Rubber matting area: 56 square feet ✓

More children are using the playground, so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need? 144 ✓ square feet

4. What is the length and width of the new sandbox? length 12 feet ✓ width 28 feet ✓

8

1ft
0
1
0
0
④

In the Playground

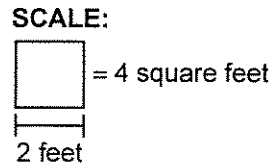
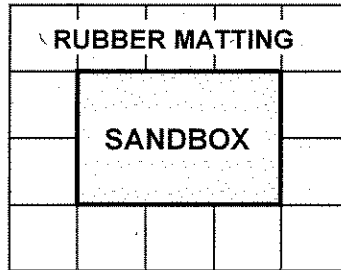
T3

This problem gives you the chance to:

- work with areas

The playground committee decides to make a sandbox area for toddlers. For safety reasons, the sandbox must be surrounded by a strip of rubber matting that is 2 feet wide.

Here is a scale drawing of the sandbox.

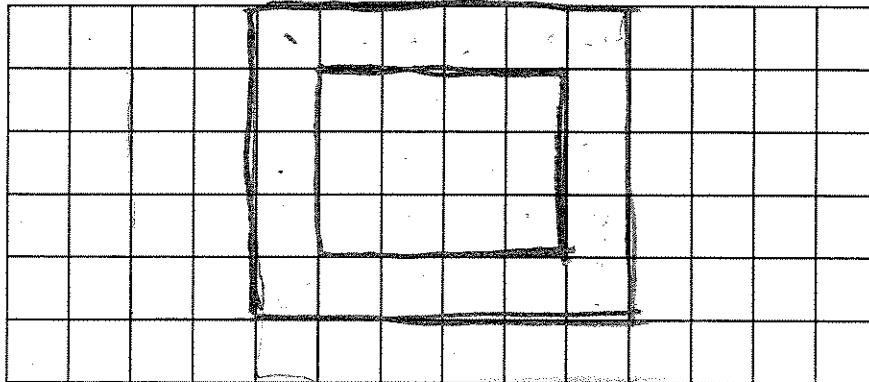
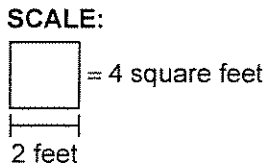


1. Find the area of the sandbox and the area of the rubber matting.

Sandbox area: 24 ✓ square feet Rubber matting area: 56 ✓ square feet

More children are using the playground, so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.



3. How many square feet of rubber matting will they need? 72 ✓ square feet

4. What is the length and width of the new sandbox?
 length 3 × feet
 width 4 × feet

✓ 2
✓ 1
1
D
D
⑥

8

In the Playground

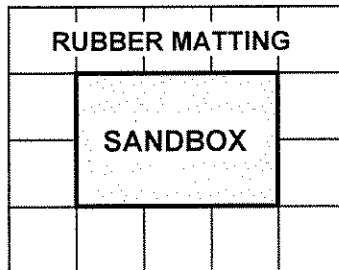
T4

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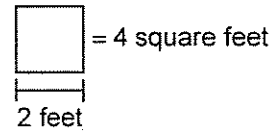
- work with areas

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For safety reasons, the sandbox must be surrounded by a strip of rubber matting that is 2 feet wide.

Here is a scale drawing of the sandbox.



SCALE:



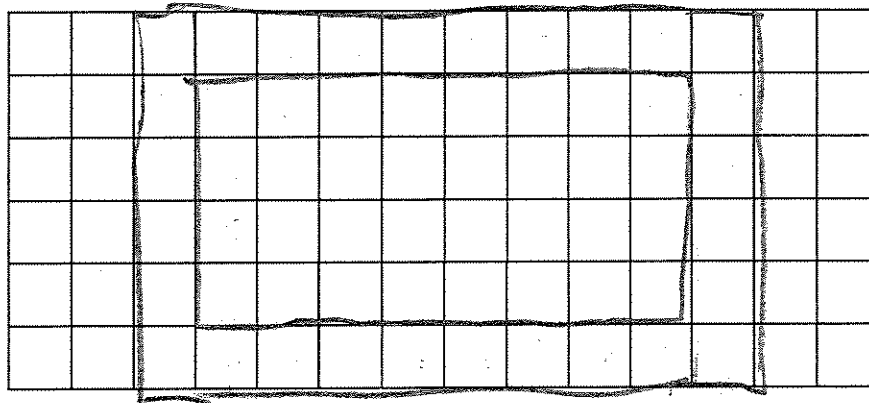
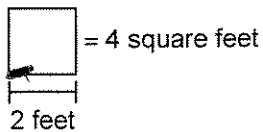
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Sandbox area: 24 square feet Rubber matting area: 56 square feet

More children are using the playground, so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox.
On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need? 112 square feet

4. What is the length and width of the new sandbox? length 10 feet X 0

width 6 feet X 0

8

4

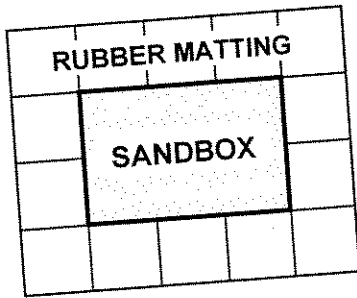
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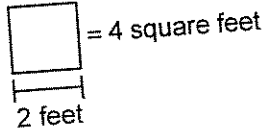
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SCALE:



1. Find the area of the sandbox and the area of the rubber matting.

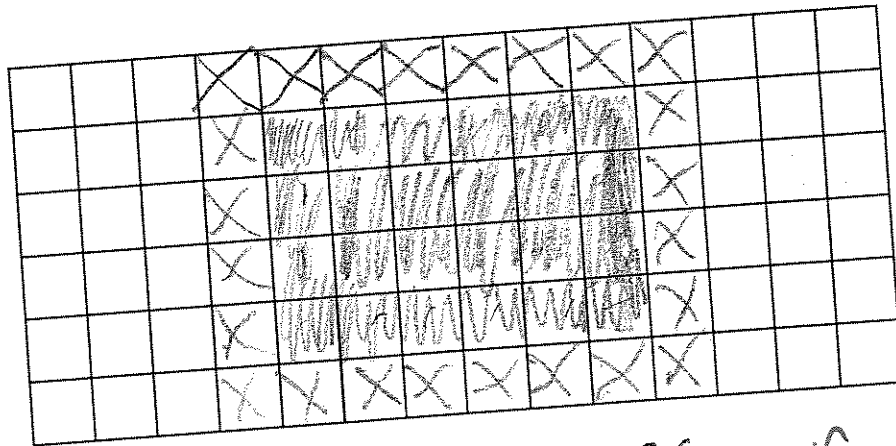
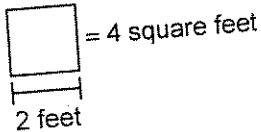
Sandbox area: 24 ✓ square feet

Rubber matting area: 56 ✓ square feet

More children are using the playground, so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need?

96 ✓ square feet

4. What is the length and width of the new sandbox?

length 12 feet ✓

width 8 feet ✓

8

1ft
1ft
1ft
⑦

In the Playground

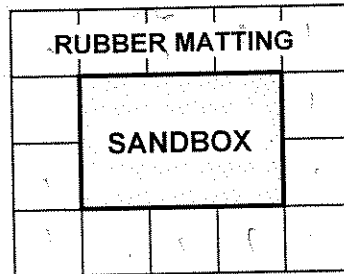
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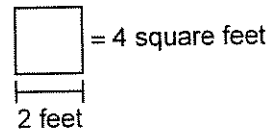
- work with areas

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Here is a scale drawing of the sandbox.



SCALE:



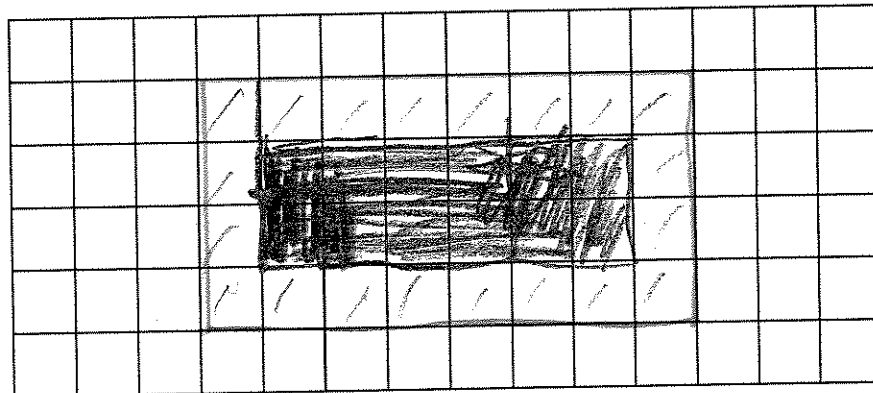
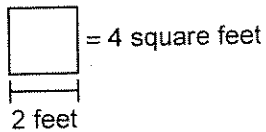
1. Find the area of the sandbox and the area of the rubber matting.

Sandbox area: 24 ✓ square feet Rubber matting area: 56 ✓ square feet 2

More children are using the playground, so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need?

~~28~~ 80 ✓ square feet

4. What is the length and width of the new sandbox?

length 12 ✓ feet

width 4 ✓ feet

8

8

In the Playground

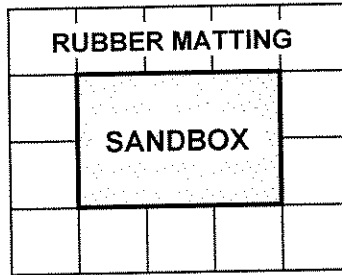
S2

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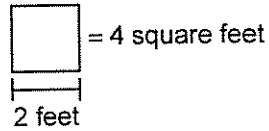
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The playground committee decides to make a sandbox area for toddlers. For safety reasons, the sandbox must be surrounded by a strip of rubber matting that is 2 feet wide.

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SCALE:



1. Find the area of the sandbox and the area of the rubber matting.

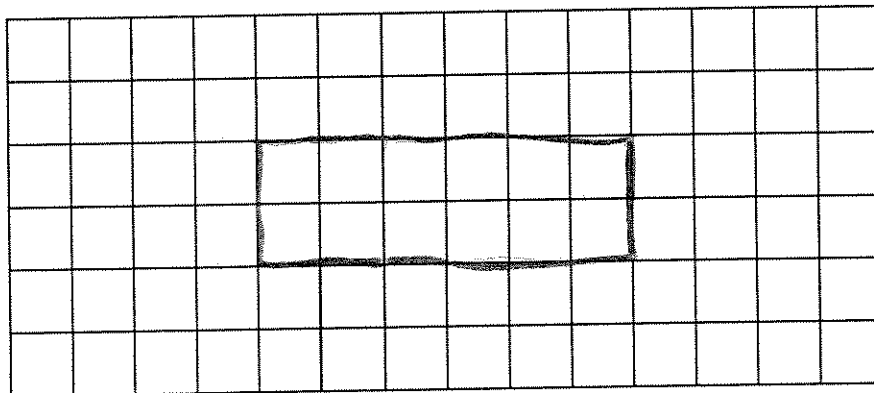
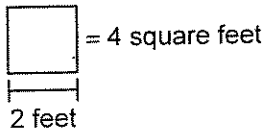
Sandbox area: 6 ^x square feet Rubber matting area: 14 ^x square feet

0
0

More children are using the playground, so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



✓ 2
1 0

3. How many square feet of rubber matting will they need? 288 ^x square feet

0

4. What is the length and width of the new sandbox? length 12 feet ✓
width 4 feet ✓

1
1

8

4

In the Playground

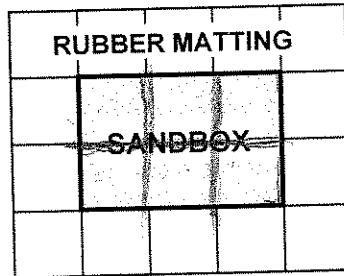
S3

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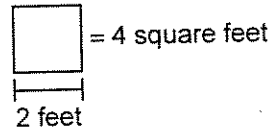
- work with areas

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Here is a scale drawing of the sandbox.



SCALE:



1. Find the area of the sandbox and the area of the rubber matting.

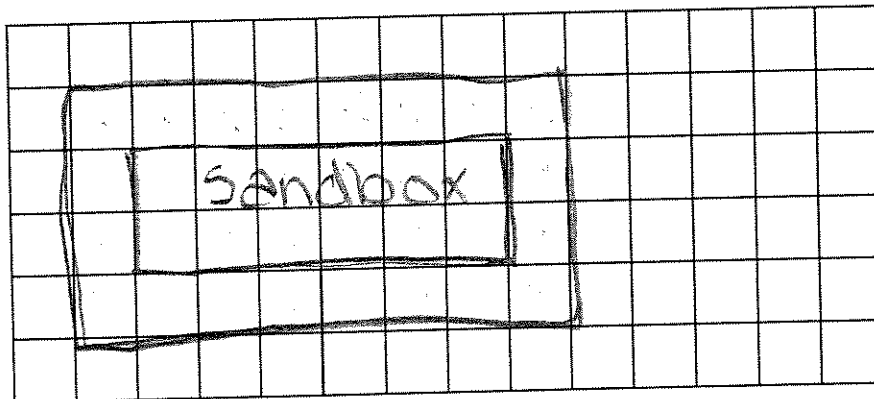
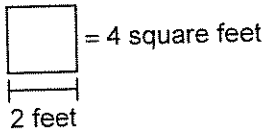
Sandbox area: 24 square feet ✓

Rubber matting area: 56 square feet ✓

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2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need? 80 square feet ✓

4. What is the length and width of the new sandbox?

length 10 feet ✓

width 2 feet ✓

8

2
1
0
0
6

In the Playground

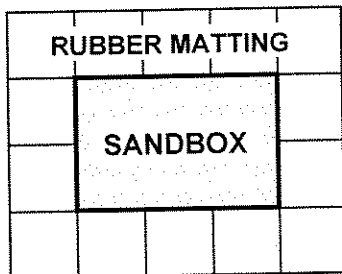
S4

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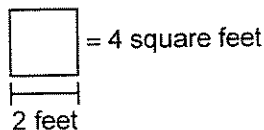
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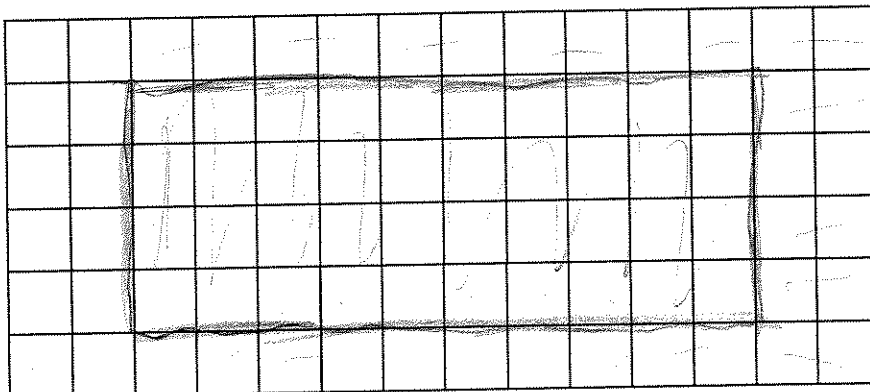
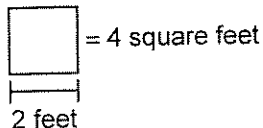
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Sandbox area: 24 ✓ square feet Rubber matting area: 56 ✓ square feet

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SCALE:



3. How many square feet of rubber matting will they need? 176 × square feet

4. What is the length and width of the new sandbox? length 30 feet ×

width 16 × feet

8

In the Playground

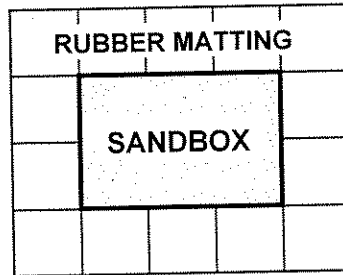
S5

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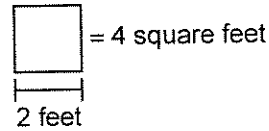
- work with areas

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Here is a scale drawing of the sandbox.



SCALE:



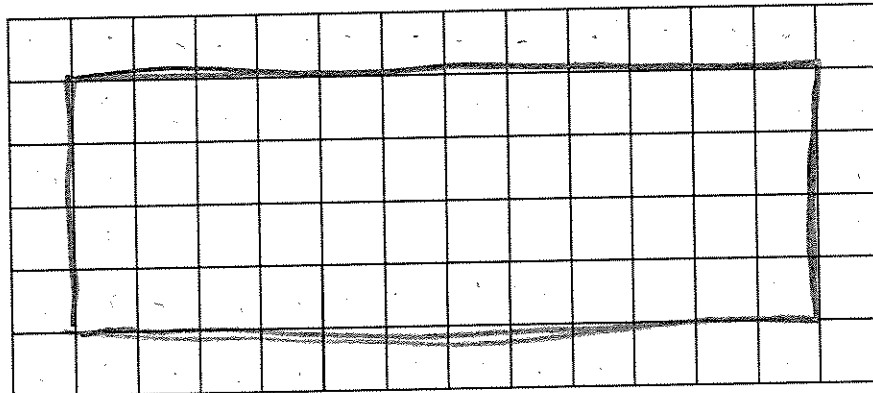
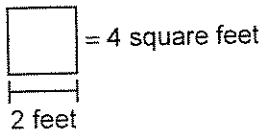
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2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need? 144 square feet

4. What is the length and width of the new sandbox? length 24 feet ✓

width 8 feet ✓

8

6

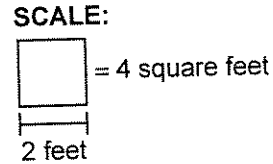
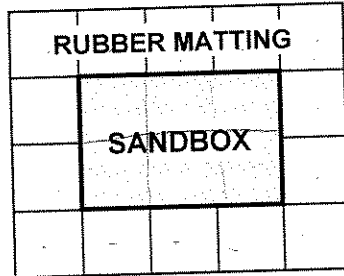
In the Playground

S6

This problem gives you the chance to:
 • work with areas

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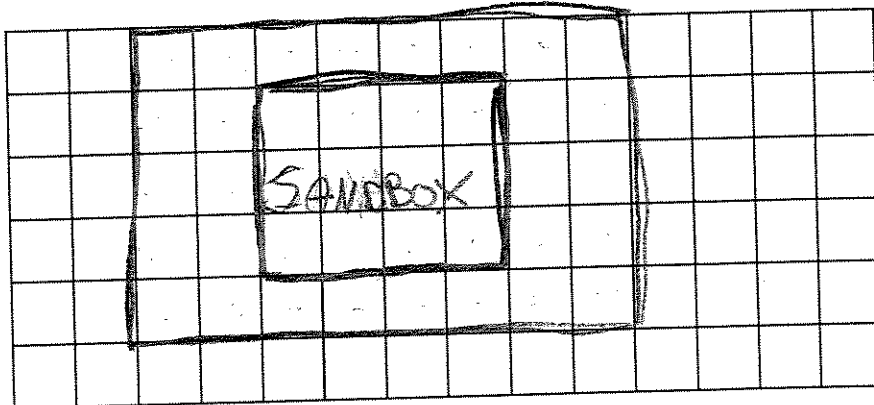
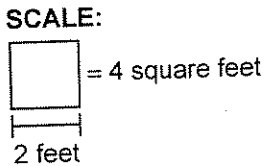


1. Find the area of the sandbox and the area of the rubber matting.

Sandbox area: 24 square feet Rubber matting area: 56 square feet

More children are using the playground, so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox.
 On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.



✓ 2

x 0

0

0

1

5

3. How many square feet of rubber matting will they need? 112 square feet

4. What is the length and width of the new sandbox? length 5 feet

width 8 feet

8

In the Playground

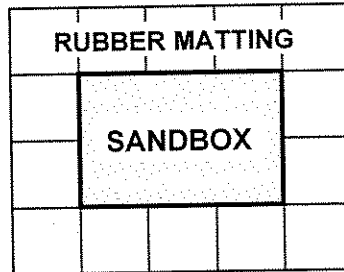
S8

This problem gives you the chance to:

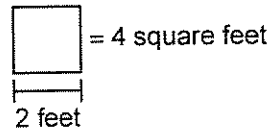
- work with areas

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Here is a scale drawing of the sandbox.



SCALE:



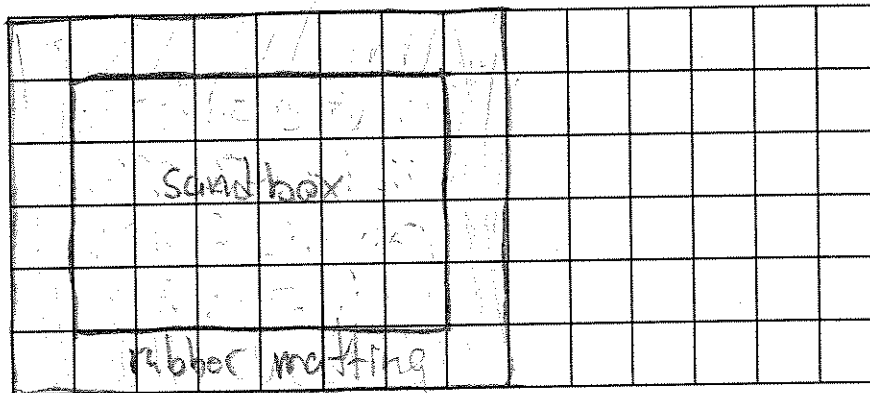
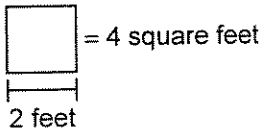
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Sandbox area: 24 ✓ square feet Rubber matting area: 56 ✓ square feet

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2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need? 112 × square feet

4. What is the length and width of the new sandbox? length 8 feet ✓

width 6 feet ×

8

0
1
0
4

In the Playground

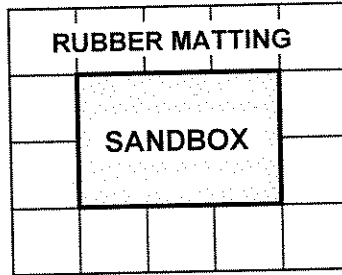
S9

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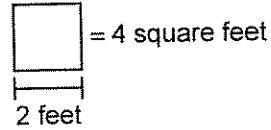
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SCALE:



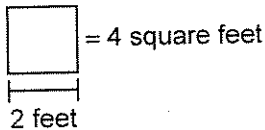
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2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3. How many square feet of rubber matting will they need? 112 ^x square feet

4. What is the length and width of the new sandbox?

length 12 feet ✓

width 4 feet ✓

8

7

In the Playground

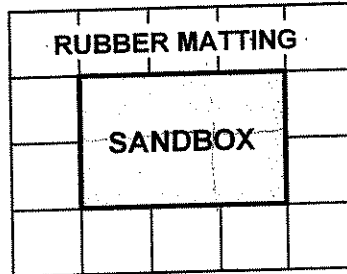
S10

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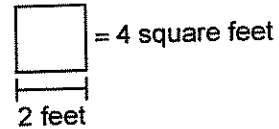
- work with areas

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Here is a scale drawing of the sandbox.



SCALE:



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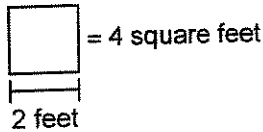
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Rubber matting area: 56 square feet

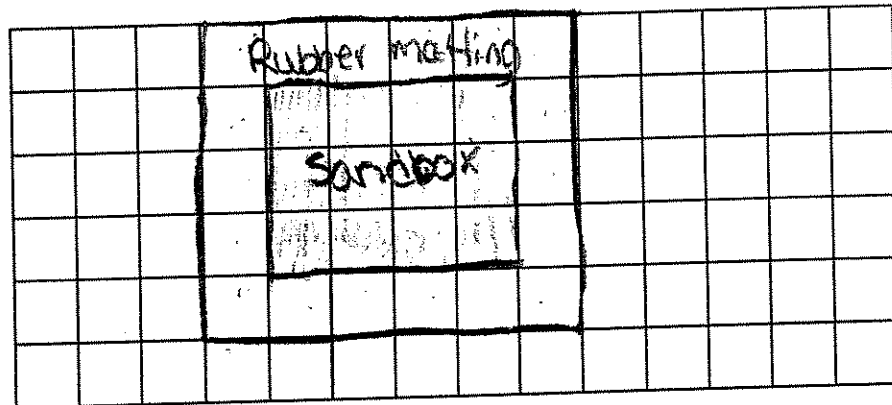
More children are using the playground; so the committee decides to double the area of the sandbox.

2. Design a new rectangular sandbox that has double the area of the original sandbox. On the grid below, make a scale drawing of the new sandbox and the surrounding rubber matting.

SCALE:



3
18
* 4
12



3. How many square feet of rubber matting will they need? 72 square feet

4. What is the length and width of the new sandbox? length 8 feet

width 6 feet

8

8