Pre-Apprentice math evaluation exam *study guide*

Add the following whole numbers: Use the space on the right for your work area.

A. 3+8=

B. 7+9=

C. 8+5=

D. 16+7=

E. 82+26=

F. 8+37+44=

G. 56+87+98=

H. 342+427+770=

I. 473+563+882=

J. 9877+5431+1123=

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Subtract the following whole numbers: Use the space on the right for your work area.

A. 8-4=

B. 16-7=

C. 76-21=

D. 454-46=

E. 743-317=

F. 982-697=

G. 1421-244=

H. 3458-1648=

I. 55711-4261=

J. 98668-8968=

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Multiply the following whole numbers: Use the space on the right for your work area.

A. 7x8=

B. 10x7=

C. 55x7=

D. 722x5=

E. 1683x6=

F. 79x25=

G. 454x46=

H. 315x526=

I. 2144x234=

J. 4122x1323=

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Divide the following whole numbers: Use the space on the right for your work area.

A. 9÷3=

B. 49÷7=

C. 819÷7=

D. 1140÷4=

E. 39÷3=

F. 198÷66=

G. 2132÷82=

H. 732÷122=
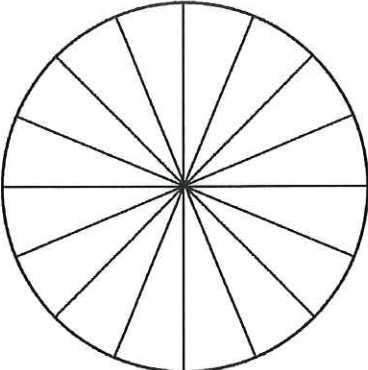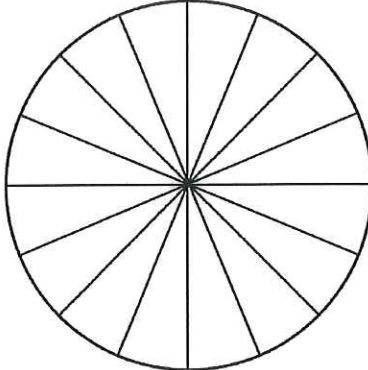
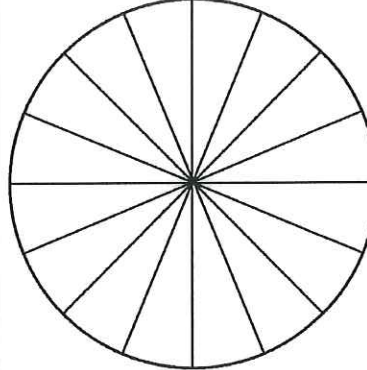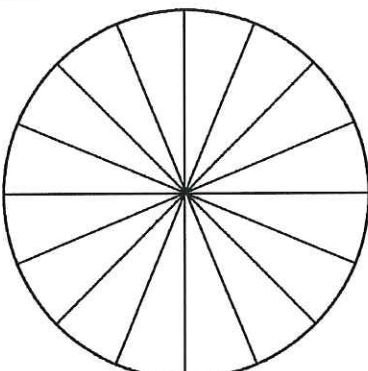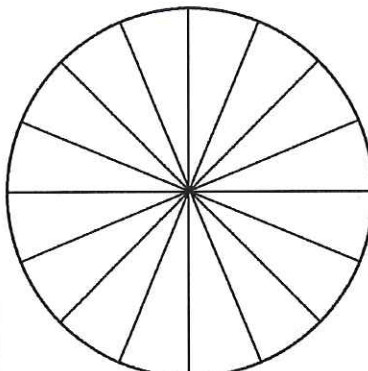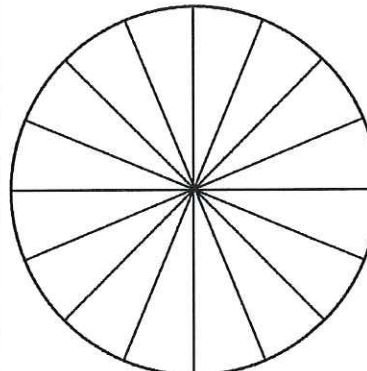I. 5544÷462=

J. 8928÷744=

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Fractions

Below are 6 circles. Using your pencil, shade the following fraction amounts in each circle using each circle for one of the fractional amounts listed.

one-eighth	one-quarter	three-eighths

one-half	five-eighths	fifteen-sixteenths

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Adding Fractions

Add the following fractions: Use the space on the right for your work area.

A. 1/4 + 3/8 =

B. 5/16 + 3/4 =

C. 3/4 + 7/32=

D. 7/8 + 7/16 =

E. 5/8 + 7/32 =

F. 7/16 + 3/8 =

G. 7/16 + 1/4 =

H. 3/4 + 25/32=

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Subtracting Fractions

Subtract the following fractions: Use the space on the right for your work area.

A. 1/4 - 1/8 =

B. 1/2 - 1/16 =

C. 3/8 - 3/16 =

D. 3/4 - 3/8 =

E. 7/8 - 3/4 =

F. 7/16 - 1/4 =

G. 5/16 - 1/8 =

H. 1/2 - 1/8 =

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Reading a ruler

Label the marked locations on the ruler below:
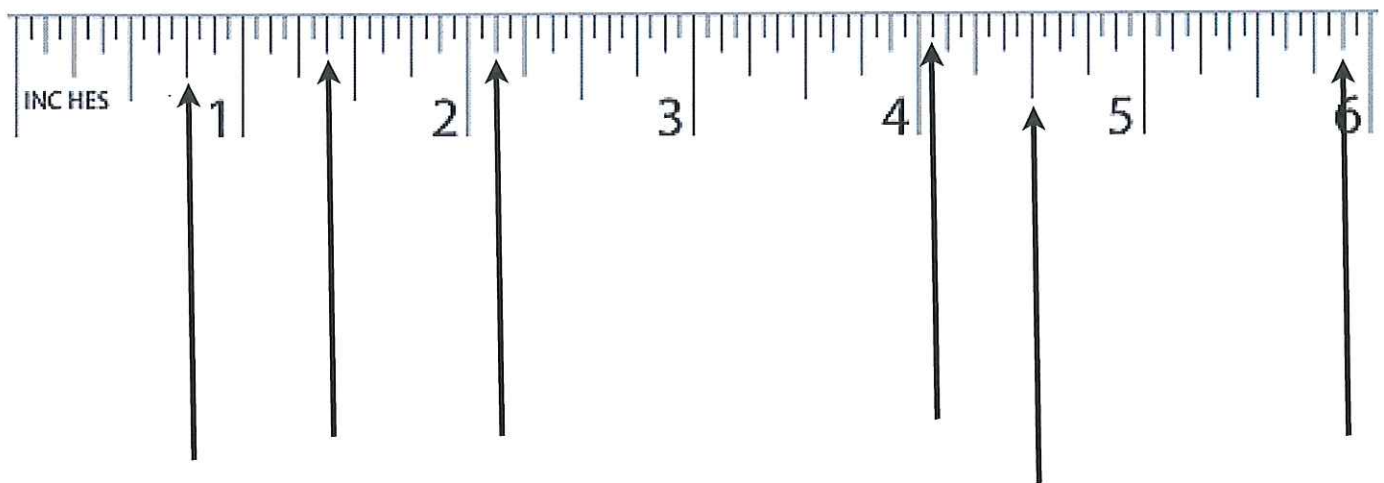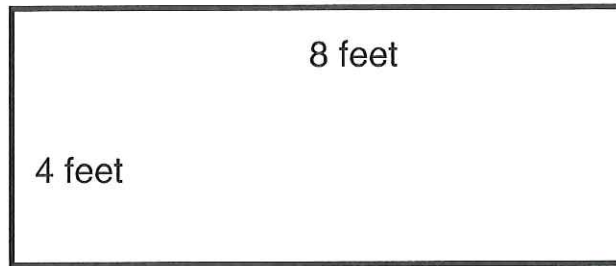
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Determining perimeter and area

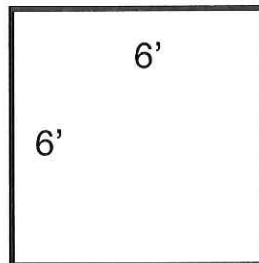Calculate the perimeter **and** area of the following shapes:

A.

Area =

Perimeter =

8 feet

4 feet

B.

Area =

Perimeter =

6'

6'

C. There are ten windows in a family room addition. Each window has 12" x 40" glass size. What is the total square footage of all ten windows?

D. One sheet of plywood measures 8 feet x 4 feet. How many sheets of plywood will be necessary to cover an area that measures 25 feet x 32 feet?

Calculating Volume

A. How many cubic feet is represented in the cube below?

3 feet

3 feet

3 feet
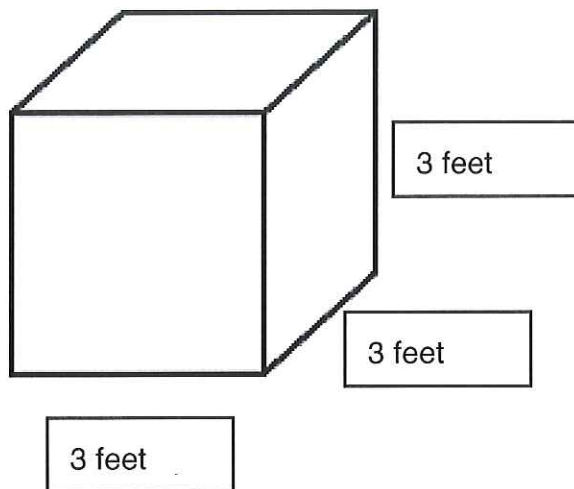
B. Based on the drawing below, calculate how many cubic feet will be needed to fill the space. (Bonus: How many cubic yards will be needed to fill the same space?)

50 feet

Top View

6 feet

Side View

2 feet

6 feet
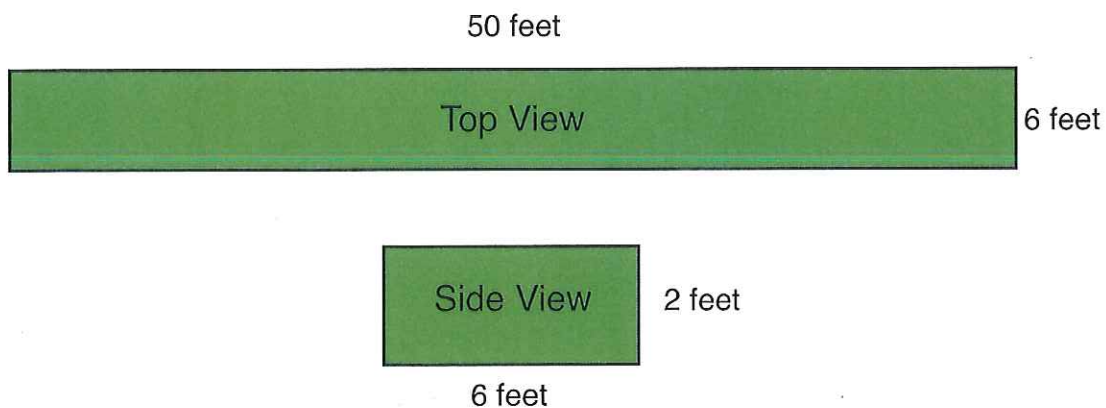
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Visualizing Shapes

Based on the two views of the shapes below, draw the **top view** in the space provided.

End View

Side View