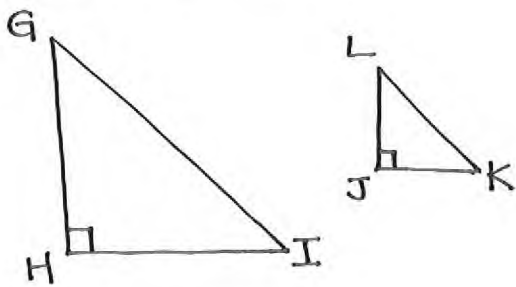


Trig Ratios Practice *2

*9

① $\triangle LMN$ is a right triangle. $\angle N$ is a right angle. The $\sin M = \frac{7}{12}$. Find the length of the missing side.

② $\triangle GHI \sim \triangle LJK$. $\sin L$ is equal to what 3 trig ratios?

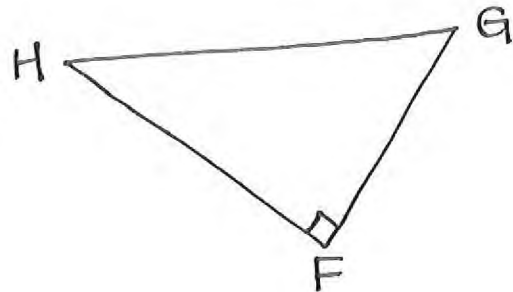


③ The $\sin G$ is equal to

_____.

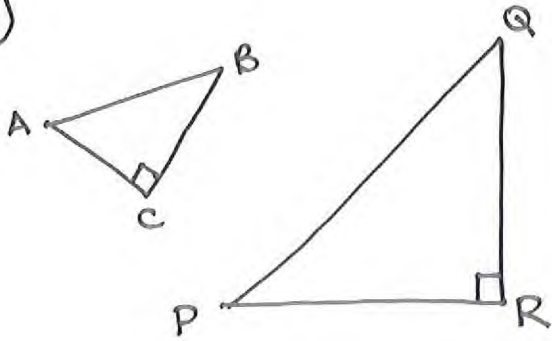
The $\cos G$ is equal to

_____.



④ The tangent of $\angle M$ in right triangle LMP is $\frac{5}{3}$. What is the length of the hypotenuse of the triangle?

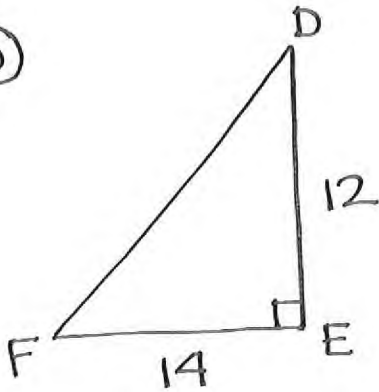
⑤



$$\triangle ABC \sim \triangle PQR$$

$\cos B$ is equal to what 3 trig ratios?

⑥



$$\cos D = \underline{\hspace{2cm}}$$

$$\tan F = \underline{\hspace{2cm}}$$

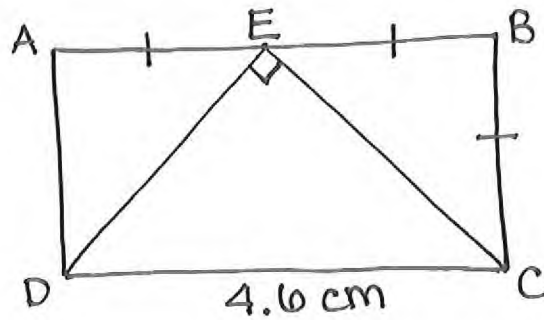
$$\sin D = \underline{\hspace{2cm}}$$

$$\cos F = \underline{\hspace{2cm}}$$

$$\sin F = \underline{\hspace{2cm}}$$

⑦ What is the approximate perimeter of $\triangle DEC$ if rectangle ABCD has a length of 4.6 centimeters?

- a) 5.1 cm
- b) 6.5 cm
- c) 9.8 cm
- d) 11.1 cm



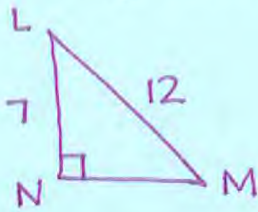
- ⑧ i) $\sin 30^\circ = \cos \underline{\hspace{1cm}}^\circ$
- ii) $\cos 57^\circ = \sin \underline{\hspace{1cm}}^\circ$
- iii) $\sin \underline{\hspace{1cm}}^\circ = \cos 36^\circ$
- iv) $\cos \underline{\hspace{1cm}}^\circ = \sin 71^\circ$

← Fill in the blank with the appropriate angle measure.

Trig Ratios Practice #2

*9

- ① $\triangle LMN$ is a right triangle. $\angle N$ is a right angle. The $\sin M = \frac{7}{12}$. Find the length of the missing side.



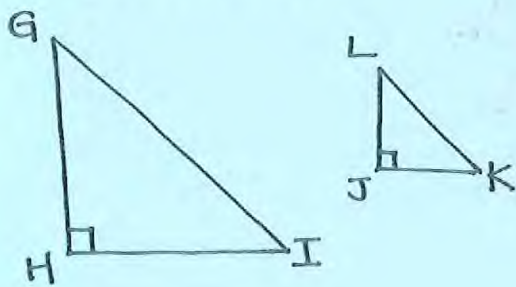
$$7^2 + NM^2 = 12^2$$

$$49 + NM^2 = 144$$

$$NM^2 = 95$$

$$NM = 9.75$$

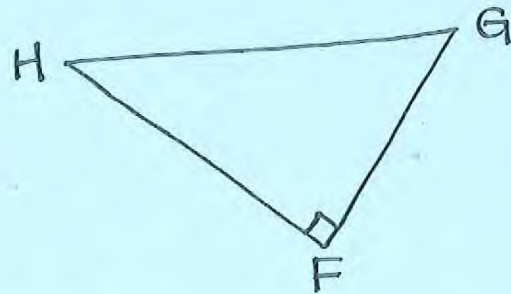
- ② $\triangle GHI \sim \triangle LJK$. $\sin L$ is equal to what 3 trig ratios?



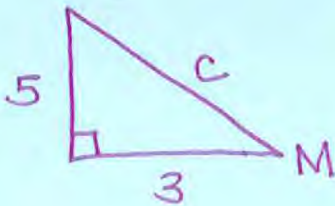
$\sin G$
 $\cos K$
 $\cos I$

- ③ The $\sin G$ is equal to $\cos H$.

The $\cos G$ is equal to $\sin H$.



- ④ The tangent of $\angle M$ in right triangle LMP is $\frac{5}{3}$. What is the length of the hypotenuse of the triangle?



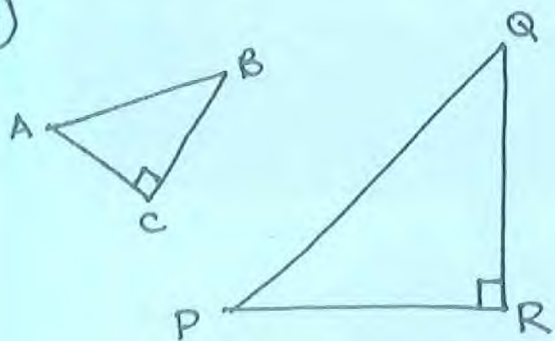
$$5^2 + 3^2 = c^2$$

$$25 + 9 = c^2$$

$$34 = c^2$$

$$5.83 = c$$

5)



$$\Delta ABC \sim \Delta PQR$$

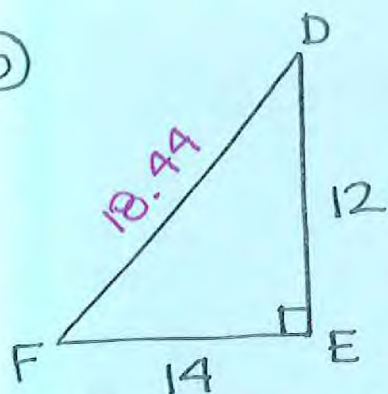
$\cos B$ is equal to what 3 trig ratios?

$$\cos Q$$

$$\sin A$$

$$\sin P$$

6)



$$\cos D = \frac{12}{18.44}$$

$$\tan F = \frac{12}{14}$$

$$\sin D = \frac{14}{18.44}$$

$$\cos F = \frac{14}{18.44}$$

$$\sin F = \frac{12}{18.44}$$

$$14^2 + 12^2 = c^2$$

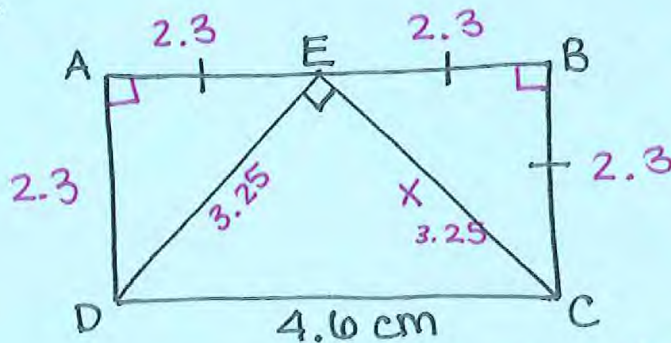
$$196 + 144 = c^2$$

$$340 = c^2$$

$$18.44 = c$$

7) What is the approximate perimeter of ΔDEC if rectangle ABCD has a length of 4.6 centimeters?

- a) 5.1 cm
- b) 6.5 cm
- c) 9.8 cm
- d) 11.1 cm



$$2.3^2 + 2.3^2 = x^2$$

$$5.29 + 5.29 = x^2$$

$$10.58 = x^2$$

$$3.25 = x$$

$$p = 3.25 + 3.25 + 4.6$$

$$= 11.1$$

8) i) $\sin 30^\circ = \cos 60^\circ$

ii) $\cos 57^\circ = \sin 33^\circ$

iii) $\sin 54^\circ = \cos 36^\circ$

iv) $\cos 19^\circ = \sin 71^\circ$

← Fill in the blank with the appropriate angle measure.