

عبقريات الموهوبات

ابدئي من علامة البداية وتتبعي المسار للحلول الصحيحة بإيجاد قيمة x وأطوال الأضلاع المفقودة بالإضافة لتحديد النظريات الخاصة بالتشابه (الأعداد يمكن كتابتها على صورة أعداد عشرية)



البداية

A maze of 20 boxes containing geometry problems related to similar triangles. The problems are interconnected by lines forming a path from the start to the end.

Box 1 (Top Left): Two triangles TWZ and XYW are shown. Sides: $TW=10$, $WZ=11$, $XW=22$, $YW=20$. Question: نظرية التشابه؟

Box 2 (Top Middle-Left): Two right triangles ABC and DFG . Angles: $\angle C=44^\circ$, $\angle F=47^\circ$. Question: نسبة التشابه؟

Box 3 (Top Middle-Right): Two triangles PSQ and PHQ . Sides: $PS=5$, $SH=2$, $PH=4$, $HQ=3$. Question: قيمة x ؟

Box 4 (Top Right): Two triangles NQP and RSQ . Sides: $NQ=12.5$, $QP=13$, $RS=12$, $SQ=9.2$. Question: معامل التشابه؟

Box 5 (Second Row, Left): A triangle with a line segment from a vertex to the opposite side. Sides: 11 , 14 , 20 , x . Question: قيمة x ؟

Box 6 (Second Row, Middle-Left): Two triangles JKL and MPQ . Sides: $JK=15$, $KL=12$, $MP=9$, $PQ=12$. Question: نظرية التشابه؟

Box 7 (Second Row, Middle-Right): A triangle with a line segment from a vertex to the opposite side. Sides: x , 13 , 4 , 6 . Question: قيمة x ؟

Box 8 (Second Row, Right): A triangle with a line segment from a vertex to the opposite side. Sides: 13 , 10 , 12 . Question: طول ED ؟

Box 9 (Third Row, Left): A triangle with a line segment from a vertex to the opposite side. Sides: 15 , 10 , 12 . Question: طول BD ؟

Box 10 (Third Row, Middle-Left): Two triangles ABC and DEF . Angles: $\angle A=42^\circ$, $\angle D=42^\circ$. Question: قيمة x ؟

Box 11 (Third Row, Middle-Right): A triangle with a line segment from a vertex to the opposite side. Sides: 6 , $3\frac{1}{2}$, $3\frac{1}{2}$. Question: طول MP ؟

Box 12 (Third Row, Right): Two triangles KLM and NPQ . Sides: $KL=20$, $LM=15$, $NP=10$. Question: قيمة x ؟

Box 13 (Fourth Row, Left): A triangle with a line segment from a vertex to the opposite side. Sides: 15 , 10 , 12 . Question: قيمة x ؟

Box 14 (Fourth Row, Middle-Left): A triangle with a line segment from a vertex to the opposite side. Sides: $SR=5$, $PT=15$, $PS=12.5$. Question: TQ ؟

Box 15 (Fourth Row, Middle-Right): A right triangle with a line segment from a vertex to the opposite side. Sides: $3y+1$, $5y=9$, $2x+1$, $3x=5$. Question: قيمة y ؟

Box 16 (Fourth Row, Right): A triangle with a line segment from a vertex to the opposite side. Sides: 22 , x . Question: قيمة x ؟

Box 17 (Bottom Row, Left): Two parallel lines intersected by a transversal. Angles: $7x-2$, $4x+3$. Question: قيمة x ؟

Box 18 (Bottom Row, Middle): A cartoon character wearing a graduation cap and holding a diploma. Text: رملت للنمى النهاية.

Box 19 (Bottom Row, Middle-Right): A right triangle with a line segment from a vertex to the opposite side. Sides: 10 , x , 9 , 6 . Question: قيمة x ؟

Box 20 (Bottom Row, Right): A cartoon character wearing a graduation cap and holding a diploma. Text: ابعثي في الرصد للطلول العصبية.