Similar Triangles

Solutions

The dimensions of the 24 triangles in cm are given below.

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| --- | --- | --- |
| A - 12, 12, 12 | J – 6, 8, 10 | S – 15, 15, 20 |
| B – 9, 12, 18 | K – 4.5, 6, 9 | T – 12.5, 20, 25 |
| C – 2, 4, 5 | L – 8, 8, 12 | U – 10, 24, 26 |
| D – 5, 8, 10 | M – 5, 12, 13 | V – 2.5, 6, 6.5 |
| E – 9, 12, 15 | N – 3, 4, 5 | W – 6, 12, 15 |
| F – 7.5, 7.5, 10 | P – 4, 4, 4 | X – 6, 6, 6 |
| G – 3, 3, 4 | Q – 8, 16, 20 | Y – 12, 16, 24 |
| H – 10, 16, 20 | R – 5, 5, 7.5 | Z – 2, 2, 3 |

The 8 groups of similar triangles are as follows

APX, RLZ, SFG, UMV, JNE, DHT, CQW, BYK

There is a sneaky twist in that one of the 24 triangles needs to be turned upside down (from the side with the dimensions on) to make it fit!