

# Väritä ruutuja – Kertolasku 1-10, osa 1/2

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*Matematiikan harjoitustehtäviä, 7-9v,  
10min/sivu*






Nämä tehtävät auttavat lapsia ymmärtämään 1) kuinka kertolaskua voi tehdä yhteenlaskun avulla, 2) kuinka numerot 6-10 voi hajottaa luvun 5 avulla ja 3) kuinka kertolaskun voi hajottaa osiin. Värittäminen tekee kertolaskusta konkreettisempaa sekä visuaalisesti että kinesteettisesti. Tehtävissä käytetään aiemman tehtäväpaketin 5x5 ruudukkoa, jonka avulla luvut 6-10 jaetaan osiin. Tämä tehtäväpaketti toimii esitietona seuraaviin ”Kertolasku 1-10, osa 2” ja ”Kertolasku 1-20” tehtäviin.

# Matematiikan tehtäviä (8-10v, 10min/sivu)

**LÄMMITTELYTEHTÄVÄ:** Hajota luvut 6-10 osiin ja laske pienten numeroiden kertolaskut.

a) Kirjoita numerot isoihin ruutuihin.

b) Väritä pienet ruudut.

6	=	5	+	<input type="text"/>	=	
7	=	5	+	<input type="text"/>	=	
8	=	5	+	<input type="text"/>	=	
9	=	5	+	<input type="text"/>	=	
10	=	5	+	<input type="text"/>	=	

2	x	1	=	<input type="text"/>
2	x	2	=	<input type="text"/>
2	x	3	=	<input type="text"/>
2	x	4	=	<input type="text"/>
2	x	5	=	<input type="text"/>

3	x	1	=	<input type="text"/>
3	x	2	=	<input type="text"/>
3	x	3	=	<input type="text"/>
3	x	4	=	<input type="text"/>
3	x	5	=	<input type="text"/>

4	x	1	=	<input type="text"/>
4	x	2	=	<input type="text"/>
4	x	3	=	<input type="text"/>
4	x	4	=	<input type="text"/>
4	x	5	=	<input type="text"/>

5	x	1	=	<input type="text"/>
5	x	2	=	<input type="text"/>
5	x	3	=	<input type="text"/>
5	x	4	=	<input type="text"/>
5	x	5	=	<input type="text"/>

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# Matematiikan tehtäviä (8-10v, 10min/sivu)

**TEHTÄVÄ:** Laske kahden numeron kertolasku ruudukoiden avulla.

a) Kirjoita numerot isoihin ruutuihin.

b) Väritä pienet ruudut.

$$\begin{aligned} & \boxed{3} \times \boxed{6} \\ = & \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \square & \square & \square \\ \hline \square & \square & \square \\ \hline \end{array} \times \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \boxed{3} \times \boxed{5} + \boxed{3} \times \boxed{1} \\ = & \boxed{15} + \boxed{3} \\ = & \boxed{18} \end{aligned}$$

$$\begin{aligned} & \boxed{3} \times \boxed{7} \\ = & \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \square & \square & \square \\ \hline \square & \square & \square \\ \hline \end{array} \times \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \square \times \square + \square \times \square \\ = & \square + \square \\ = & \square \end{aligned}$$

$$\begin{aligned} & \boxed{3} \times \boxed{8} \\ = & \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \square & \square & \square \\ \hline \square & \square & \square \\ \hline \end{array} \times \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \square \times \square + \square \times \square \\ = & \square + \square \\ = & \square \end{aligned}$$

$$\begin{aligned} & \boxed{3} \times \boxed{9} \\ = & \begin{array}{|c|c|c|} \hline \square & \square & \square \\ \hline \square & \square & \square \\ \hline \square & \square & \square \\ \hline \end{array} \times \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \square \times \square + \square \times \square \\ = & \square + \square \\ = & \square \end{aligned}$$

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# Matematiikan tehtäviä (8-10v, 10min/sivu)

**TEHTÄVÄ:** Laske kahden numeron kertolasku ruudukoiden avulla.

a) Kirjoita numerot isoihin ruutuihin.

b) Väritä pienet ruudut.

$$\begin{aligned} & \boxed{4} \times \boxed{6} \\ = & \begin{array}{|c|c|c|c|} \hline \color{red} \square & \square & \square & \square \\ \hline \color{red} \square & \square & \square & \square \\ \hline \color{red} \square & \square & \square & \square \\ \hline \color{red} \square & \square & \square & \square \\ \hline \end{array} \times \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \begin{array}{|c|c|c|c|} \hline \color{red} \square & \color{red} \square & \square & \square \\ \hline \color{red} \square & \color{red} \square & \square & \square \\ \hline \color{red} \square & \color{red} \square & \square & \square \\ \hline \color{red} \square & \color{red} \square & \square & \square \\ \hline \end{array} \\ = & \boxed{4} \times \boxed{5} + \boxed{4} \times \boxed{1} \\ = & \boxed{20} + \boxed{4} \\ = & \boxed{24} \end{aligned}$$

$$\begin{aligned} & \boxed{4} \times \boxed{7} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \times \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \color{red} \square \times \color{red} \square + \color{pink} \square \times \color{pink} \square \\ = & \color{red} \square + \color{pink} \square \\ = & \square \end{aligned}$$

$$\begin{aligned} & \boxed{4} \times \boxed{8} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \times \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \color{red} \square \times \color{red} \square + \color{pink} \square \times \color{pink} \square \\ = & \color{red} \square + \color{pink} \square \\ = & \square \end{aligned}$$

$$\begin{aligned} & \boxed{4} \times \boxed{9} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \times \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \begin{array}{|c|c|c|c|} \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \square & \square & \square & \square \\ \hline \end{array} \\ = & \color{red} \square \times \color{red} \square + \color{pink} \square \times \color{pink} \square \\ = & \color{red} \square + \color{pink} \square \\ = & \square \end{aligned}$$

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