



**El quinzet**

**Sèries de rapidesa de càlcul mental**

**Versió 2016**  
**Educació -Primària**

# **El Quinzet**

## **Mètode de rapidesa de càlcul**

### **Educació Primària**



## MÈTODE QUINZET PER AUTOMATITZAR OPERACIONS BÀSIQUES MENTALS

### Presentació

Aquest material té com a objectiu principal que l'alumnat pugui memoritzar les operacions bàsiques al llarg de l'Educació Primària i Secundària. Les activitats de memorització actuals són molt diferents de les que feien servir els nostres pares i mares a l'escola.

Fa solament vint anys, els escolars, a més d'automatitzar operacions bàsiques a l'escola, en sortir al carrer les utilitzaven amb una certa freqüència, per exemple, utilitzaven sovint bitllets i monedes. Actualment els nens i les nenes només fan càlculs complexos a l'escola, i els càlculs numèrics que duen a terme en la seva vida quotidiana són molt senzills. Així doncs, cal que incorporem als nostres processos didàctics nous exercicis de càlcul mental automàtic que serveixin per pal·liar els déficits de càlcul actuals; en definitiva, necessitem una mena d'entrenament o gimnàstica de càlcul mental, perquè els alumnes automatitzin les operacions aritmètiques elementals. Al llarg de l'Educació Primària i d'una bona part de la Secundària, els alumnes han haurien d'assolir els objectius següents:

- Tenir automatitzades les sumes i restes amb nombres de l'1 al 20, és a dir, les operacions bàsiques entre la primera i la segona desena.
- Tenir automatitzades les taules de multiplicar i dividir fins a la taula de 12.

Lluís Segarra Neira  
El Quinzet



## Instruccions

A cada alumne i alumna li donem un full on hi ha 4 columnes de 15 operacions mentals; en total, 60.

Les operacions d'un mateix full poden ser de suma, resta, multiplicació o divisió.

Els alumnes escriuran el seu nom a la part superior d'aquest full d'operacions. A continuació el giraran, de manera que la cara impresa quedi oculta. Els indicarem que comencin, i en aquest moment els alumnes tombaran el full i començaran a escriure els resultats de les operacions. Han de començar de manera ordenada per la primera operació de la columna de l'esquerra, i anar fent les operacions de dalt a baix. En acabar aquesta primera columna, han de continuar amb la segona; en acabar aquesta, amb la tercera, i en finalitzar la tercera, amb la quarta. Si no saben el resultat d'una operació, la poden saltar. Al cap de dos minuts, els donarem la indicació d'acabar.

Els alumnes han de marcar l'última operació feta i tornar a girar el full d'operacions. Les operacions les podran corregir els mateixos alumnes, que hauran d'escriure a la part inferior del full el nombre d'operacions correctes fetes en dos minuts. L'endemà, o al cap de dos o tres dies (la periodicitat dependrà del temps que vulguem dedicar a aquest tipus de càlcul), repetirem l'activitat.

Recomanem fer-ho aproximadament unes tres vegades per setmana. Els donarem el mateix full d'operacions, cada alumne o alumna hi escriurà, a la part superior, el nombre d'operacions ben fetes del dia anterior, i seguirem el mateix procediment que hem explicat abans: els alumnes giraran el full d'operacions i, quan els donem la indicació de començar, tornaran a tombar el full i intentaran aconseguir un nombre de respostes superior al del dia anterior.

Aquest repte els estimula a buscar un resultat millor que el del dia anterior, i fa que intentin superar-se dia a dia per obtenir el seu propi «rècord». D'altra banda, si els alumnes fan sempre el mateix full d'operacions, al final arribaran a memoritzar-les. La primera vegada que un alumne o una alumna se li proposi un full d'operacions haurà de fer unes 25 operacions correctament.

Si els alumnes fan menys de 15 operacions en dos minuts, haurà de fer el full del curs inferior d'aquesta mateixa operació. En canvi, si fa més de 55 operacions correctament, haurà de fer el full del curs o nivell superior d'aquesta operació. Si una alumna o alumne s'estanca en el nombre d'operacions, és a dir, si obté sempre el mateix nombre de respostes correctes, també haurà de passar al full del nivell inferior.



Operacions ben fetes l'última vegada: \_\_\_\_\_

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Operaciones bien hechas en 2 minutos: \_\_\_\_\_

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Operacions ben fetes l'última vegada: \_\_\_\_\_

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### Multiplicacions

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Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Multiplicacions

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Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Divisions

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$27 : 9 =$

$24 : 6 =$

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$18 : 9 =$

$16 : 4 =$

$40 : 8 =$

$48 : 6 =$

$50 : 5 =$

$24 : 8 =$

$36 : 9 =$

$40 : 8 =$

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$24 : 3 =$

$18 : 6 =$

$42 : 7 =$

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$81 : 9 =$

$32 : 8 =$

$28 : 7 =$

$72 : 8 =$

$12 : 3 =$

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Operacions ben fetes en 2 minuts: \_\_\_\_\_





Operacions ben fetes l'última vegada: \_\_\_\_\_

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$5 \times 4 =$

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$12 \times 5 =$

$9 \times 9 =$

$15 \times 2 =$

$9 \times 5 =$

$6 \times 8 =$

$6 \times 5 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Divisions

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$54 : 9 =$

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$63 : 9 =$

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$56 : 7 =$

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$24 : 12 =$

$24 : 4 =$

$44 : 4 =$

$27 : 9 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_





Operacions ben fetes l'última vegada: \_\_\_\_\_

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$18 + 9 =$

$18 + 6 =$

$18 + 5 =$

$18 + 8 =$

$18 + 4 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

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$11 - 3 =$

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$19 - 5 =$

$19 - 8 =$

$19 - 6 =$

$19 - 5 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Multiplicacions

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$7 \times 8 =$

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$12 \times 5 =$

$12 \times 6 =$

$12 \times 9 =$

$12 \times 5 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

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$72 : 8 =$

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$27 : 9 =$

$54 : 9 =$

$36 : 9 =$

$81 : 9 =$

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$81 : 9 =$

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$18 : 9 =$

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$16 : 8 =$

$64 : 8 =$

$56 : 8 =$

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$48 : 8 =$

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$99 : 11 =$

$66 : 11 =$

$55 : 11 =$

$44 : 11 =$

$77 : 11 =$

$88 : 11 =$

$55 : 11 =$

$33 : 11 =$

$66 : 11 =$

$99 : 11 =$

$33 : 11 =$

$22 : 11 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Sumes

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$5 + 11 =$

$2 + 11 =$

$8 + 11 =$

$2 + 11 =$

$5 + 11 =$

$7 + 11 =$

$6 + 11 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Restes

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$21 - 8 =$

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$22 - 7 =$

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$22 - 5 =$

$22 - 8 =$

$22 - 6 =$

$22 - 5 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Multiplicacions

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$6 \times 8 =$

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Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Divisions

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$16 : 4 =$

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$24 : 7 =$

$54 : 9 =$

$64 : 8 =$

$42 : 7 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_





Operacions ben fetes l'última vegada: \_\_\_\_\_

### Sumes

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$9 + 4 =$

$9 + 7 =$

$9 + 3 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Restes

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$24 - 9 =$

$24 - 7 =$

$24 - 6 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

### Multiplicacions

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$7 \times 9 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_



Operacions ben fetes l'última vegada: \_\_\_\_\_

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$48 : 12 =$

Operacions ben fetes en 2 minuts: \_\_\_\_\_

**El quinzet**  
**Sèries de rapidesa de càlcul mental**  
**Versió 2016**  
**Educació -Primària**



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