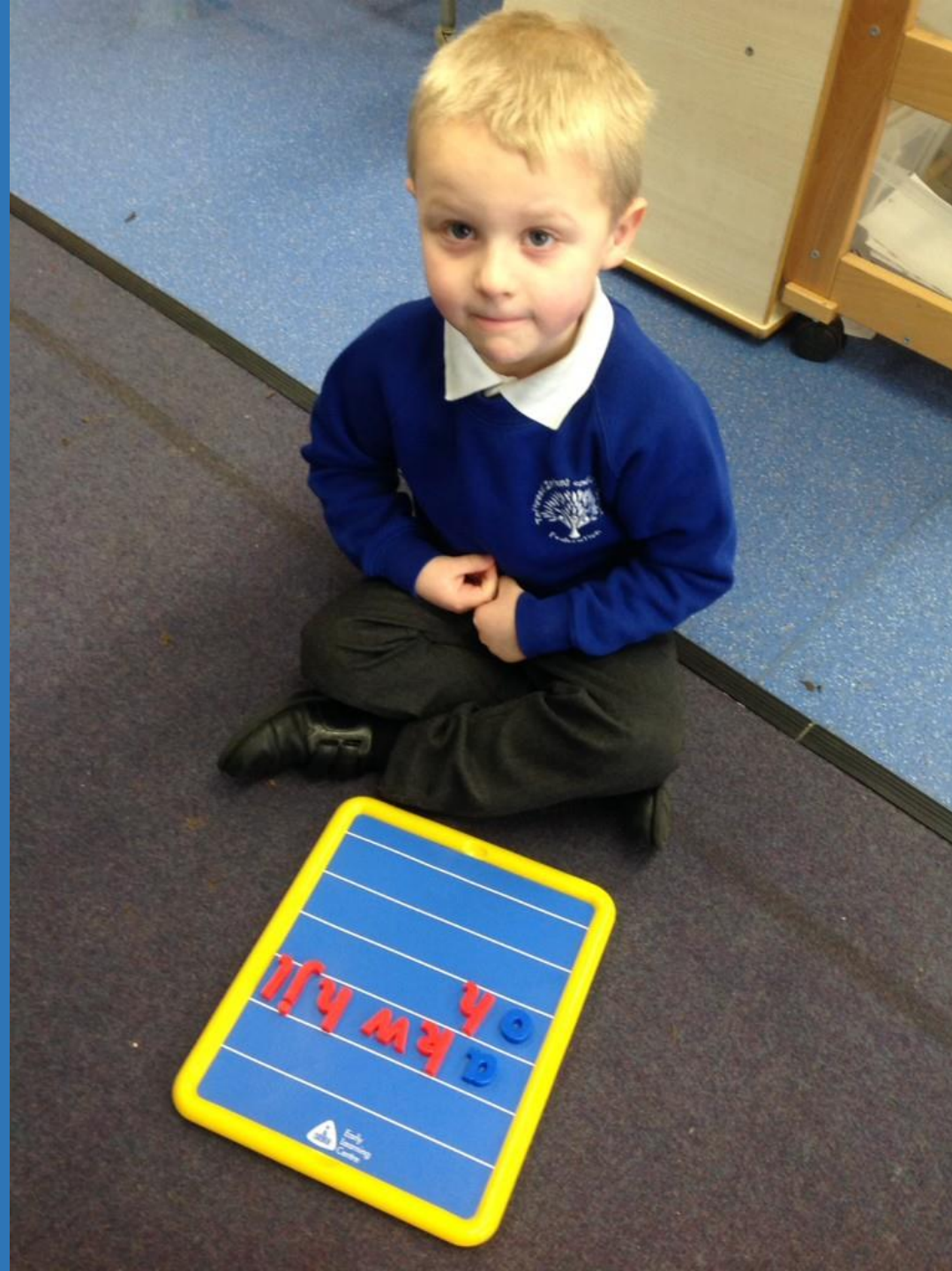


Make Eight

Federation Problem Solving Task Spring 2022



Reception





















Year 1

How many different ways can you make the number 8?

$$11 - 3 = 8$$

$$17 - 9 = 8$$

$$12 - 8 = 8$$

$$2 + 3 = 8$$

$$12 - 4 = 8$$

$$6 + 2 = 8$$

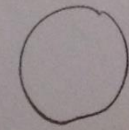
$$58 - 20 = 8$$

~~$$55 - 27 = 8$$~~

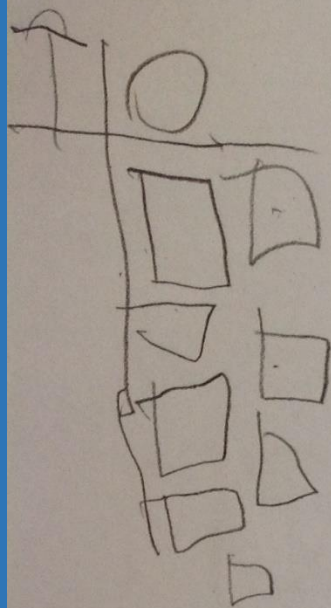
$$4 + \frac{1}{4} = 8$$

$$10 - 2 = 8$$

Make 8

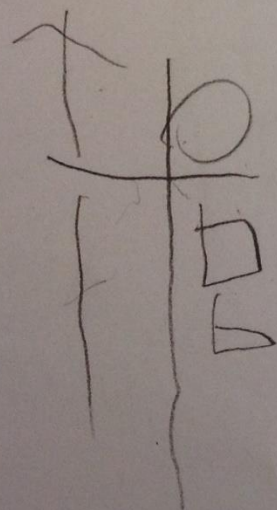


How many different ways can you make the number 8?



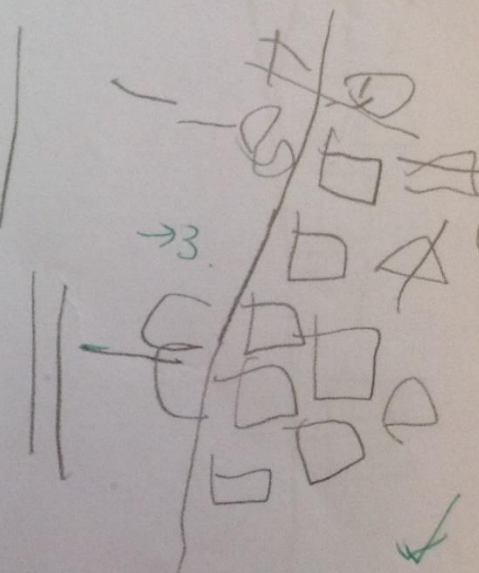
$$2 + 6 = 8$$

Make 8



$$10 - 2 = 8$$

$$3 + 5 = 8$$



$$7+1=8$$

How many different ways can you make the number 8?

$$1+7=8$$

$$8+0=8$$

Make 8

$$5+3=8$$

$$10-2=8$$

$$4+4=8$$

$$9-1=8$$

$$6+2$$

Name 10111

$$4 + 4 = 8$$

How many different ways can you make the number 8?

$$8 = 3 + 5 \quad 4 \times 2 = 8$$

$$8 \times 1 = 8$$

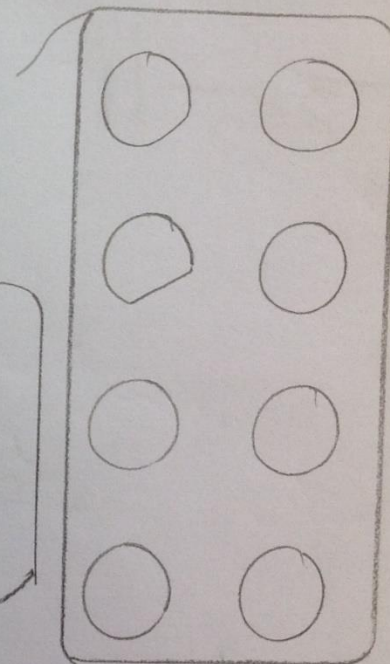
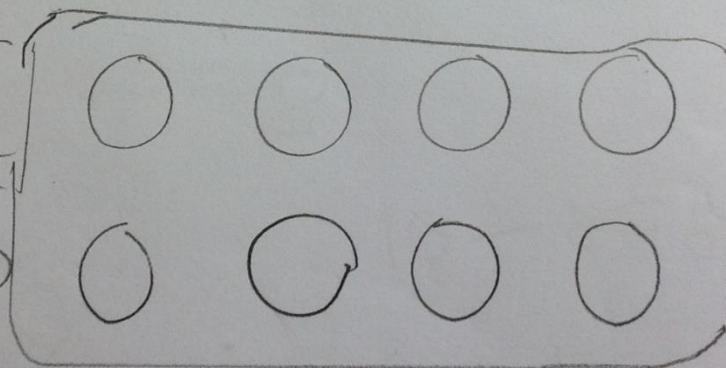
$$8 = 6 + 2$$

Make 8

$$8 = 5 + 3$$

$$8 = 2 + 6$$

$$8 = 7 + 1 \quad 7 + 1$$



Year 2



$$2+6=8 \checkmark \quad 3+5=8 \checkmark \quad 7+1=8 \checkmark \quad 4+4=8 \checkmark$$

$$6+2=8 \checkmark \quad 5+3=8 \checkmark \quad 7+1=8 \checkmark \quad 6+2=8 \checkmark \quad 10-2=8 \checkmark$$

$$11-3=8 \checkmark \quad 12-4=8 \checkmark \quad 13-5=8 \checkmark \quad 14-6=8 \checkmark$$

$$15-7=8 \checkmark \quad 16-8=8 \checkmark \quad 17-9=8 \checkmark \quad 18-10=8 \checkmark$$

$$19-11=8 \checkmark \quad 20-12=8 \checkmark \quad 21-13=8 \checkmark \quad 22-14=8 \checkmark$$

$$23-15=8 \checkmark$$



$$4+4=8✓$$

51122

$$10-2=8✓$$

$$4 \times 2 = 8✓$$

Is I had

$$* 7+1=8✓$$

$$6+2=8✓$$

$$9-1=8✓$$

$$5+3=8✓$$

$$4+4=8✓$$

$$8+0=8✓$$

$$5+3=8✓$$

$$2+6=8✓$$

$$1+7=8✓$$

$$8+0=8✓$$

$$2+2+2+2=8✓$$

$$2+3+2=8✓$$

10 apple and I eat 2 I have 8 apples ✓

$$3 \times 5 = 8 \times$$

$$20 = \times$$

$$Is 16 \div 2 = 8$$

$$20 - 12 = 8 \checkmark$$

$$8 + 0 = 8 \checkmark$$

$$3 + 3 + 2 = 8 \checkmark$$

$$14 \div 2 = 8 \times$$

if I had 6 sweets and the other had 2 how much will

I have together $= 8 \checkmark$

I had 8 cars and I lost 8 I will be left with 8. ↓

I got 7 eggs and the next day I got 1 so

I had 8 eggs. ↓

I have 6 cakes and I made 2 more

now I have 8 cakes. ✓

I have 10 cakes and I ate ^{no} ~~one~~ now

I now have 8 cakes. ✓

$$4 \times 2 = 8 \checkmark$$

$$2 \times 4 = 8 \checkmark$$

$$\begin{array}{l} 10 - 2 = 8 \checkmark \\ 4 + 4 = 8 \checkmark \\ 5 + 1 = 8 \checkmark \\ 6 + 2 = 8 \checkmark \end{array}$$

oiv a 5.1.22

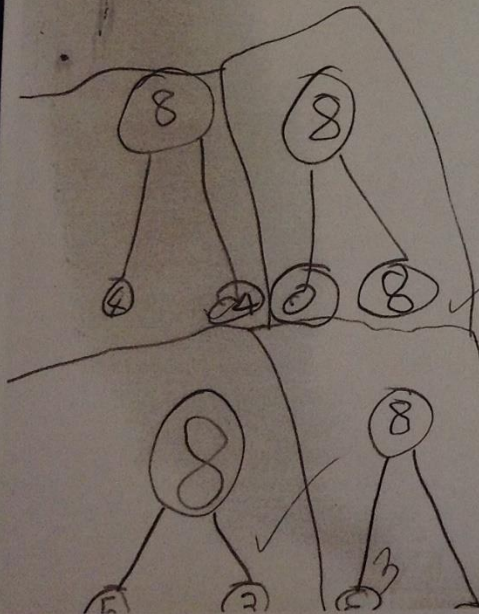
$$\begin{array}{l} 4 + 4 = 8 \\ 9 + 1 = 8 \\ 0 + 8 = 8 \\ 5 + 3 = 8 \end{array}$$

$$8 - 0 = 8 \checkmark$$

$$\begin{array}{l} 10 \times 80 = 8 \checkmark \\ 11 - 3 = 8 \checkmark \end{array}$$

$$\begin{array}{l} 20 - \frac{12}{12} = 8 \checkmark \\ 80 \times 10 = 8 \checkmark \end{array}$$

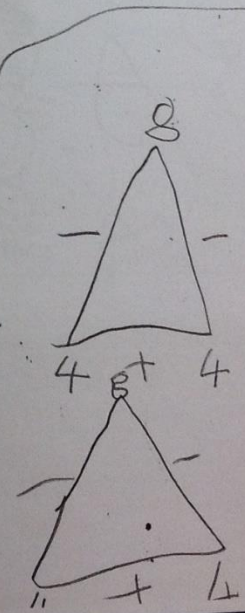
$$8^3 + 8^3 + 2 = 8 \checkmark$$



$$4cm + 4cm = 8cm \checkmark$$

$$\begin{array}{l} 6cm + 2cm = 8cm \\ 5P + 1P + 1P + 1P = 8P \end{array}$$

$$\begin{array}{l} 9 - 1 = 8 \checkmark \\ 0 + 8 = 8 \checkmark \\ 1 + 1 = 2 \checkmark \end{array}$$



$$\begin{array}{l} 4 + 4 = 8 \\ 4 + 4 = 8 \\ 8 + 4 = 4 \\ 8 - 4 = 4 \end{array}$$

Year 3

I'm eight

Your challenge is to make the number 8. Try to think of lots of different ways to make 8. You can be as creative as you like! Perhaps you could challenge yourself to find ways of making 8 that you think no one else will have thought of...

$$2 \times 2 \times 2 \times 2 = 8$$

$$2 + 6 = 8$$

$$22 - 14 = 8$$

$$18 - 10 = 8$$

$$88 + 10 = 98 - 90 = 8$$

$$18 \div 1 = 18 - 10 = 8$$

$$1028 - 1020 = 8$$

$$8 - 4 = 4 + 8 = 12 - 4 = 8$$

$$4 + 4 + 4 - 4 = 8$$

$$4 + 4 = 8 - 6 = 2 + 6 = 8$$

$$8 + 8 - 8 = 8$$

$$9 + 9 - 2 = 17 - 11 = 8$$

$$10 + 18 = 28 - 20 = 8$$

$$2 \times 2 + 2 + 2 = 8$$

$$18 + 19 = 37 - 29 = 8$$

$$\begin{array}{r} 18 \\ 19 \\ \hline 37 \\ 1 \end{array}$$

I'm eight

Your challenge is to make the number 8. Try to think of lots of different ways to make 8. You can be as creative as you like! Perhaps you could challenge yourself to find ways of making 8 that you think no one else will have thought of...

+

$$4 + 4 = 8$$

$$5 + 3 = 8$$

$$6 + 2 = 8$$

$$1 + 7 = 8$$

$$3 + 5 = 8$$

÷

$$40 \div 5 = 8$$

$$32 \div 4 = 8$$

$$48 \div 6 = 8$$

$$8 \div 1 = 8$$

$$96 \div 12 = 8$$

x

$$8 \times 1 = 8$$

$$2 \times 4 = 8$$

$$22 - 14 = 8$$

$$10 - 2 = 8$$

$$20 - 12 = 8$$

$$= 8$$

I'm eight

Your challenge is to make the number 8. Try to think of lots of different ways to make 8. You can be as creative as you like! Perhaps you could challenge yourself to find ways of making 8 that you think no one else will have thought of...

$$8 + 1,000,000 - 1,000,000 = 8$$

$$142 + 6 - 140 = 8$$

$$1,111,111 + 7 - 1,111,110 = 8$$

$$4,688 - 4,680 = 8$$

$$16,727 + 1 - 16,720 = 8$$

$$64 + 4 - 60 = 8$$

$$64 \div 8 = 8$$

$$72 \div 9 = 8$$

$$4 \times 2 = 8$$

$$1 \times 8 = 8$$

$$16 \div 2 = 8$$

$$32 \div 4 = 8$$

$$6 \times 2 - 4 = 8$$

$$8 \times 8 \div 8 = 8$$

$$6 \times 4 - 16 = 8$$

$$1,888 - 1,880 = 8$$

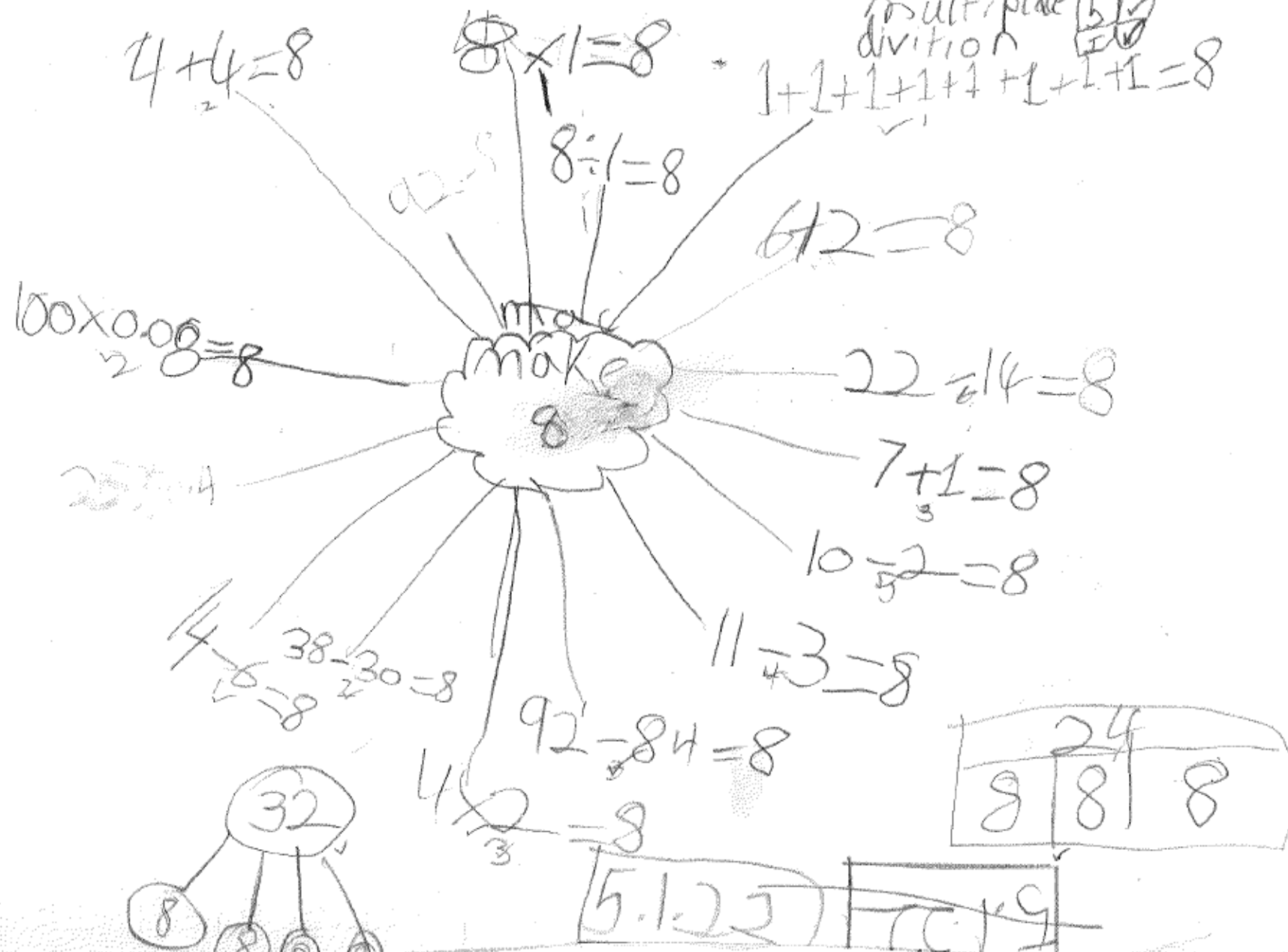
$$8,888,888 - 8,888,880 = 8$$

Year 4

Addition

4	✓
6	✓
5	✓
1	✓

 Subtraction
 multiplication
 division



$$5+2$$

$$22-14$$

$$5+3$$

$$4+4$$

$$3+5$$

$$2+6$$

$$7+1$$

$$00 \times 0.8$$

$$20 \times 0.8$$

$$8 \div 1$$

Date 5/1/22

$$20-12=8$$

$$18-10=8$$

$$10-2=8$$

$$100-92=8$$

$$1,008-1,000$$

$$92-84=8$$

$$16-8=8$$

My resorses

ones

Tens

Roll of beads

How to make 83

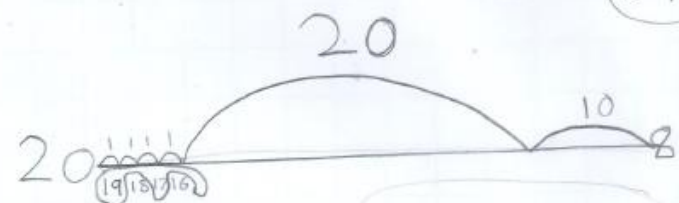


ones

□ □ □ □ □ + □ □ □

$$\begin{array}{r} 20 \\ 16 \\ \hline 06 \end{array}$$

$$6+2$$



$$20-16+6+2$$

$$20+16=6$$

$$6+2=8$$

$$5.1.22$$

$$160 \div 22 = 8$$



$$8 \rightarrow 0$$

$$16 \div 2 = 8$$

$$4 \times 4$$

$$4 \times 4$$

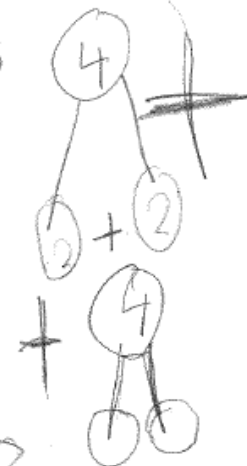
$$4 \times 2$$



$$16 - 8 = 8$$

$$8 \times 1 = 8$$

$$4 + 4 = 8$$



$$12 - 20 = 8$$

$$160 \div 22 = 8$$

$$4$$

$$8 \times 1 = 8$$



$$160 \div 22 = 8$$

$4 + 4 = 8$ $10 - 10 = 0$ $16 - 2 = 14$ $10 - 2 = 8$
 $1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = 8$ $1 + 1 + 1 + 1 \times 2 = 8$
 $5 + 3 = 8$ $2 \times 3 = 6$ $8 + 0 = 8$ $1 \times 8 = 8$
 $4 \times 2 = 8$ $128 - 120 = 8$ $100 \times 0.08 = 8$
 $2 \times 4 = 8$ $88 - 80 = 8$ $16 \times 0.48 = 7.68$
 $6 + 2 = 8$ $148 - 140 = 8$ $68 - 60 = 8$
 $7 + 1 = 8$ $98 - 90 = 8$ $58 - 50 = 8$
 $100 - 92 = 8$ $118 - 110 = 8$ $48 - 40 = 8$
 $200 - 192 = 8$ $138 - 130 = 8$ $38 - 30 = 8$
 $300 - 292 = 8$ $11 - 3 = 8$ $28 - 20 = 8$
 $400 - 392 = 8$ $12 - 4 = 8$ $21 - 13 = 8$
 $500 - 492 = 8$ $13 - 5 = 8$ $22 - 14 = 8$
 $600 - 592 = 8$ $14 - 6 = 8$ $23 - 15 = 8$
 $700 - 692 = 8$ $15 - 7 = 8$ $24 - 16 = 8$
 $800 - 792 = 8$ $16 - 8 = 8$ $25 - 17 = 8$
 $900 - 892 = 8$ $17 - 9 = 8$ $26 - 18 = 8$
 $1000 - 992 = 8$ $18 - 10 = 8$ $27 - 19 = 8$
 $19 - 11 = 8$ $28 - 20 = 8$
 $20 - 12 = 8$ $29 - 21 = 8$
 $30 - 22 = 8$

$9-1=8$

$8+0=8$

$8 \div 1=8$

8

$4+4=8$

$2 \times 4=8$

$8 \times 1=8$

$2+6=8$

$22-14=8$

$100 \times 0.08=8$

$7+1=8$

$6+2=8$

$5+3=8$

$4+4=8$

$3+5=8$

$10-2=8$

$11-3=8$

$12-4=8$

$13-5=8$

$14-6=8$

$15-7=8$

$16-8=8$

$17-9=8$

$18-10=8$

$19-11=8$

$20-12=8$

$21-13=8$

$22-14=8$

$23-15=8$

$24-16=8$

$25-17=8$

$26-18=8$

$27-19=8$

$28-20=8$

$29-21=8$

$30-22=8$

$31-23=8$

$32-24=8$

$33-25=8$

$34-26=8$

$35-27=8$

$36-28=8$

$37-29=8$

$38-30=8$

$39-31=8$

$40-32=8$

$41-33=8$

$42-34=8$

$43-35=8$

$44-36=8$

$45-37=8$

$46-38=8$

$47-39=8$

$48-40=8$

$49-41=8$

$50-42=8$

$51-43=8$

$52-44=8$

$53-45=8$

$54-46=8$

$55-47=8$

$56-48=8$

$57-49=8$

$58-50=8$

$59-51=8$

$60-52=8$

$61-53=8$

$62-54=8$

$63-55=8$

$64-56=8$

$65-57=8$

$66-58=8$

$67-59=8$

$68-60=8$

$69-61=8$

$70-62=8$

$71-63=8$

$72-64=8$

$73-65=8$

$74-66=8$

$75-67=8$

$76-68=8$

$92-84=8$

$93-85=8$

$94-86=8$

$95-87=8$

$96-88=8$

$97-89=8$

$98-90=8$

$99-91=8$

$100-92=8$

$101-93=8$

$102-94=8$

$103-95=8$

$104-96=8$

$105-97=8$

$106-98=8$

$107-99=8$

$108-100=8$

$109-101=8$

$110-102=8$

$111-103=8$

$112-104=8$

$113-105=8$

$114-106=8$

$115-107=8$

$116-108=8$

$117-109=8$

$118-110=8$

$119-111=8$

$120-112=8$

$121-113=8$

$122-114=8$

$123-115=8$

$124-116=8$

$125-117=8$

$126-118=8$

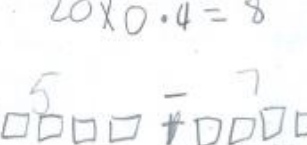
$127-119=8$

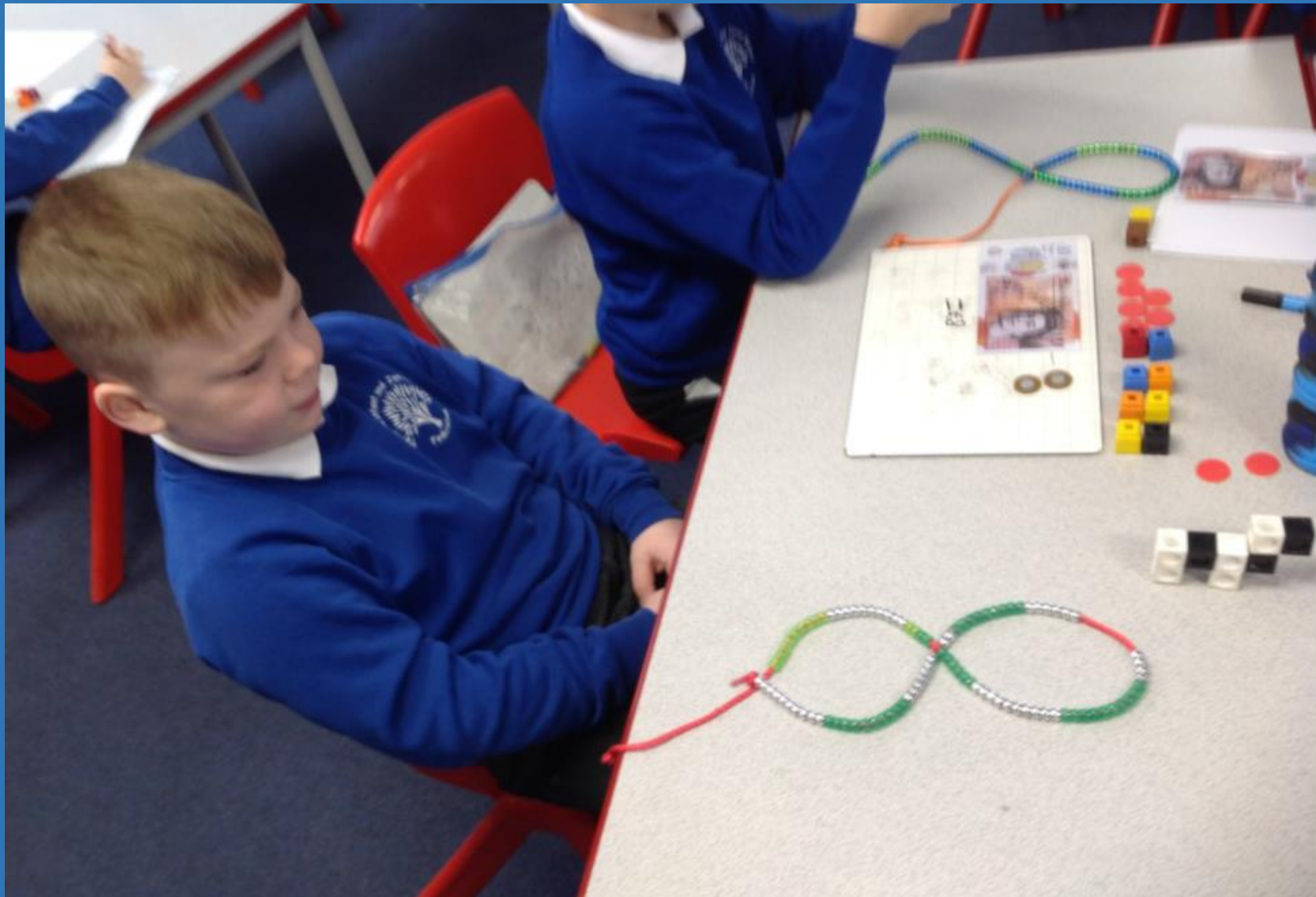
$128-120=8$

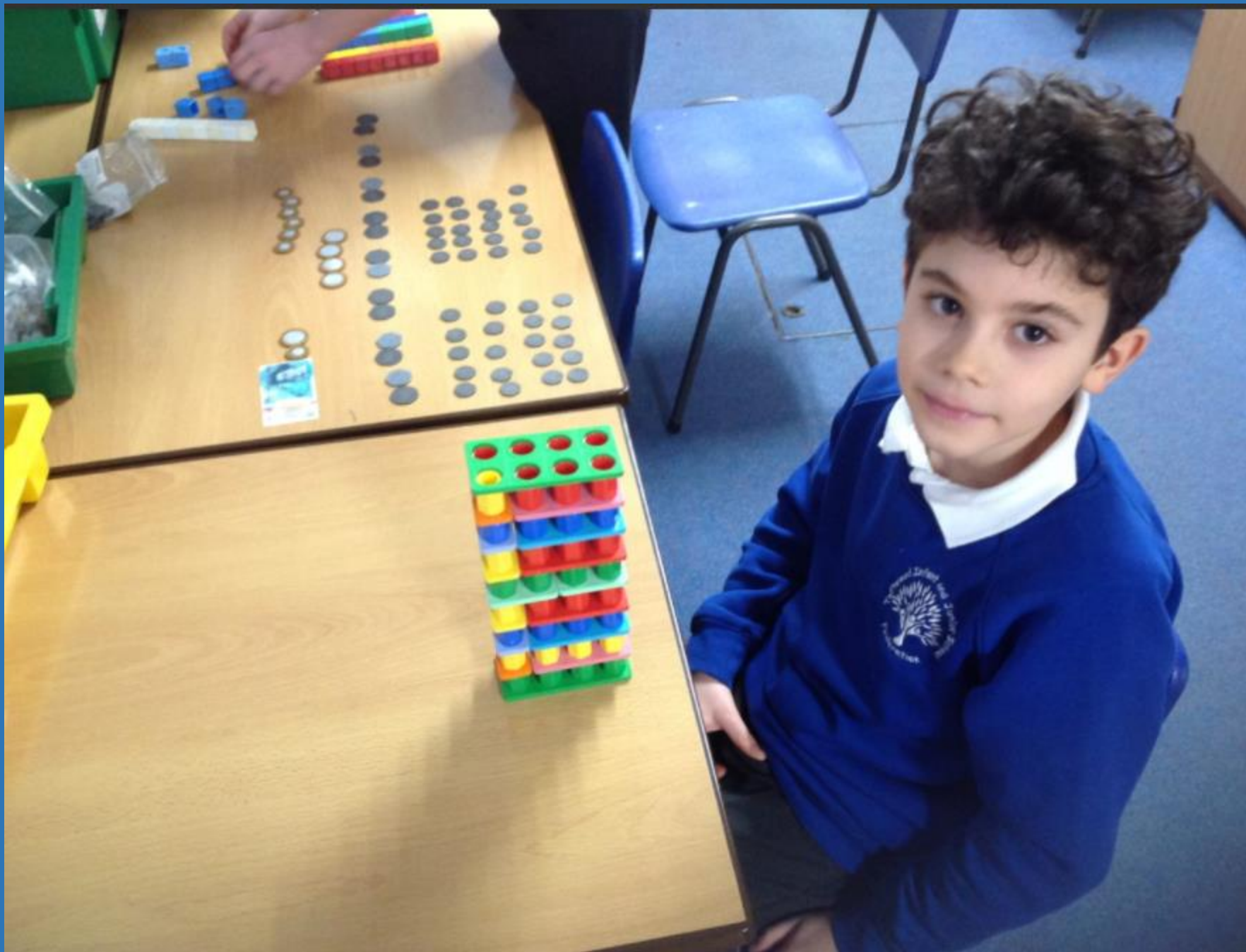
$129-121=8$

$130-122=8$

$131-123=8$









Year 5

6 1 2 2

make 8

1 $2 \times 4 = 8$

2 $10 - 2 = 8$

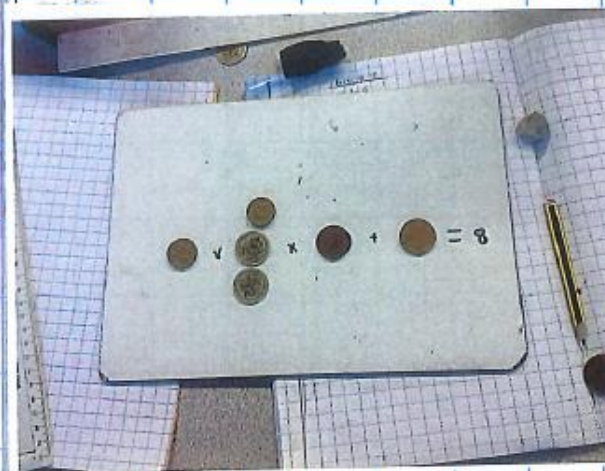
3 $4 + 8 = 8$

4 $3 + 5 = 8$

5 $1 \times 3 \times 2 + 2 = 8$

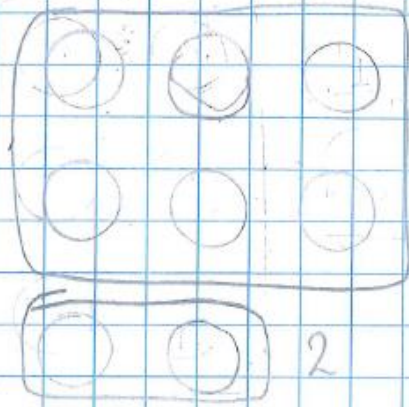
6 $12 \div 4 = 8$

7 $20 - 18 + 6 = 8$



Make 8 5 1 2 0 2 2

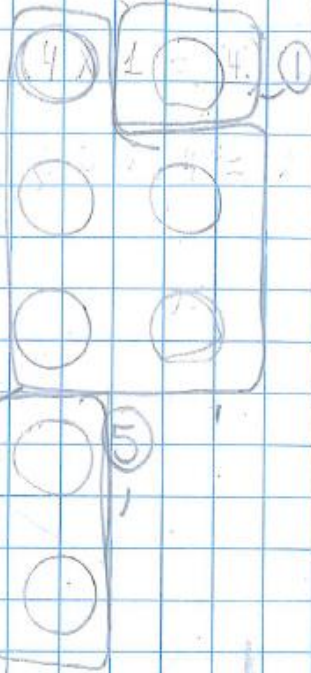
①



6

2

$$80 \div 10 = 8$$



①

⑤

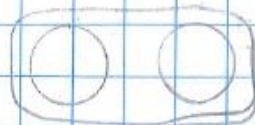
②

②

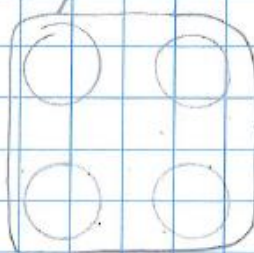
$$\begin{array}{r} 236 \\ \times 5 \\ \hline 1180 \\ 13 \end{array}$$

(with the calculator.)

③



x



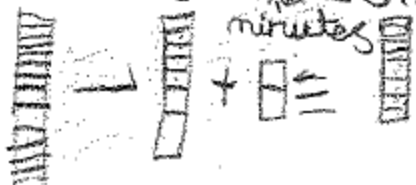
=



$$9 \text{ years} - 1 \text{ year} = 8 \text{ years}$$

$$\textcircled{2} + \textcircled{5} + \textcircled{5} - \textcircled{2} - \textcircled{2} = 8$$

2 hours - 1 1/2 = 8 minutes



• = child

28 children ~~At the~~ 20 children were sick 8 children were left
School Home

.....

Home

*** ସମସ୍ତଙ୍କୁ ଜଣାଇ ଦିଆଯାଉଛି ***

Singh



School



55 56 57 58

WIKIP 5-1 22

in eight challenges

 = 11111118

2.  =  8

3.   = 

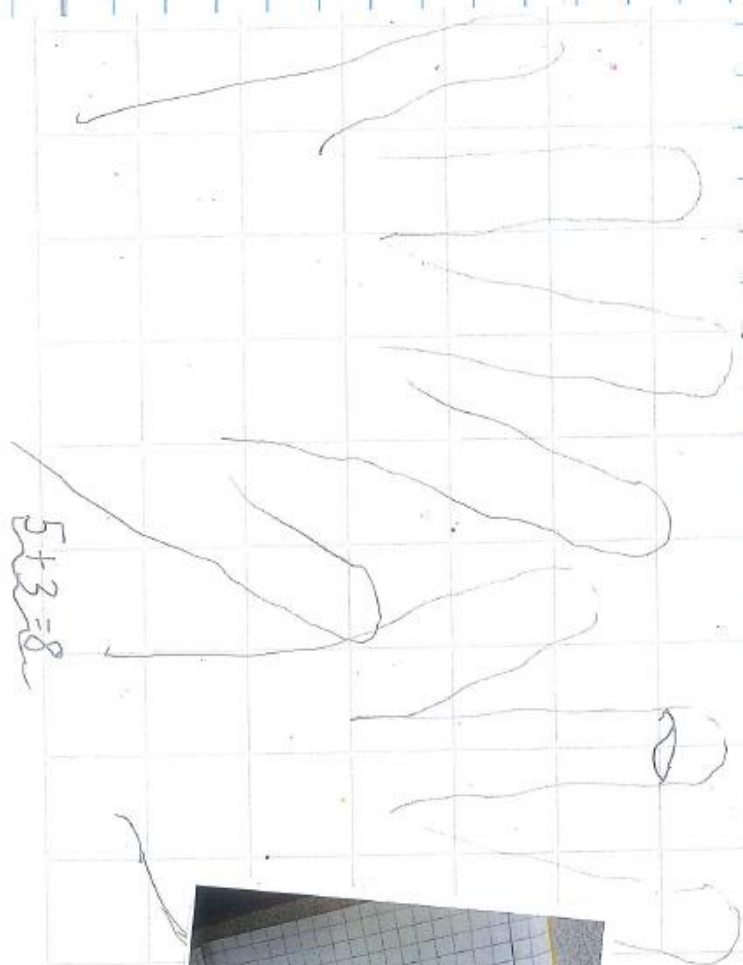
4.  +  +  +  = 8

5. 4 tooth brushes and a mirror 4 tooth brushes and
and three whiff = 8

1

a 19 km²

B 22 km²



5+3=8

$$3 = 7+1=8$$

$$88-11=8$$

$$80 \div 8 = 10$$



I love
this!



Year 6

I'm Eight

Your challenge is to make the number 8. Try to think of lots of different ways to make 8. You can be as creative as you like! Perhaps you could challenge yourself to find ways of making 8 that you think no-one else will have thought of.

$$1.) \frac{4}{8} 3 + \frac{4}{8} 4 = 8$$

$$2.) 6, 3 + 1, 5 = 8$$

$$3.) 1, 4 + 2 + 3, 4 + 1 = 8$$

$$4.) 8 0 0 \div 1 0 = 8$$

$$5.) \frac{2}{8} 1 + 4 + \frac{3}{8} + \frac{3}{8} 3 = 8$$

$$6.) 10 - \frac{2}{8} = 1 - \frac{7}{8} = 8$$

$$7.) 10 \times (4 + 4) \div 10 = 8$$

$$8.) 64 - 8 - 16 - 20 - 14 + 2 = 8$$

$$9.) 1 0 0 0 \div 2 - 1 0 0 \div 1 0 - 3 2 = 8$$

$$10.) 2, 4 + 3, 4 + 1, 4 + 0, 4 = 8$$

$$11.) 8 0 0 0 \div 1 0 \div 2 \div 1 0 - 3 2 = 8$$

$$12.) \frac{2}{8} + 6 + 1 + \frac{4}{8} + \frac{2}{8} = 8$$

$$13.) 6 4 - 4 \div 2 - 6 \div 3 = 8$$

$$14.) 1 2 4 - (1 2 + 1 2) \div 2 + 1 4 \div 8 = 8$$

$$15.) \sqrt{64}$$

$$16.) \sqrt{81} - 1 = 8$$

5.1.22.

I'm Eight

Your challenge is to make the number 8. Try to think of lots of different ways to make 8. You can be as creative as you like! Perhaps you could challenge yourself to find ways of making 8 that you think no-one else will have thought of.

$$100 - 92 = 8$$

$$1000 - 992 = 8$$

$$0 + 1 + 7 = 8$$

$$-7 + 13 = 8$$

$$(1 + 2) + 2 + 3 = 8$$

$$(10 + 8) - 9 + 1 = 8$$

$$\sqrt{\text{of } 64} = 8$$

$$20 - 12 = 8$$

$$16 \div 2 = 8$$

$$(20 + 6) - (6 + 7) - (3 + 2) = 8$$

$$(2 \times 8) - 6 + 2 = 8$$

Question 5: 82 apple she gives 2 all them

away until she has 2 left how many people got
apple 8



5.1.22

I'm Eight

Your challenge is to make the number 8. Try to think of lots of different ways to make 8. You can be as creative as you like! Perhaps you could challenge yourself to find ways of making 8 that you think no-one else will have thought of.

$$(7.5 - 0.5) + 0.5 + 0.2 + 0.3 = 8$$

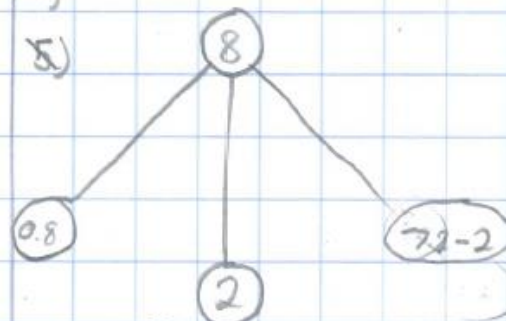
1) ~~(7.5)~~ - 7.5

2) $0.5 + 0.5 - 0.5 + 7.5 = 8$

3) $(4^2 + 4) - 12 = 8$

4)

5)



$$\frac{x}{x} \times 2 = 80$$

5)

$x^2 = 80$	$80 \div 20 = 40 \div 5$
8	

6) $x + x + x + x = 160 \div 2 = 80 \div 10 = 8$

5.1.22

I'm Eight

Your challenge is to make the number 8. Try to think of lots of different ways to make 8. You can be as creative as you like! Perhaps you could challenge yourself to find ways of making 8 that you think no-one else will have thought of.

$$2 + 6 = 8$$

$$3 + 5 = 8$$

$$4 \times 2 = 8$$

$$4 + 4 = 8$$

$$9 - 1 = 8$$

$$5 + 3 = 8$$

$$10 - 2 = 8$$

$$6 + 2 = 8$$

$$11 - 3 = 8$$

$$7 + 1 = 8$$

$$4 + 4 = 8$$

$$8 + 0 = 8$$

$$4 - 12 = 8$$

$$-9 + -1 = 8$$

4 little people
in the cinema 4
little people coming
to the cinema

2 people in the
toilet 6 people wait

2 people want
a pen 6 people
have one.

$$\begin{array}{r} 000000000000004 \\ + 000000000000004 \\ \hline 000000000000008 \end{array}$$