

★ Fractions on a Number Line

Children use a number line to represent fractions beyond one whole. They count forwards and backwards in fractions. They need to know how to divide a number line into specific fractions, i.e., when dividing into quarters, they need to ensure their number line is divided into four equal parts. On this sheet, they use simple unit fractions.

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Instructions:

Step 1: Draw a number line from 0 to 1. Divide it into 4 equal parts. Label the points with unit fractions.

Step 2: Draw a number line from 0 to 1. Divide it into 8 equal parts. Label the points with unit fractions.

Step 3: Draw a number line from 0 to 1. Divide it into 16 equal parts. Label the points with unit fractions.

Step 4: Draw a number line from 0 to 1. Divide it into 32 equal parts. Label the points with unit fractions.

Step 5: Draw a number line from 0 to 1. Divide it into 64 equal parts. Label the points with unit fractions.

Step 6: Draw a number line from 0 to 1. Divide it into 128 equal parts. Label the points with unit fractions.

Step 7: Draw a number line from 0 to 1. Divide it into 256 equal parts. Label the points with unit fractions.

Step 8: Draw a number line from 0 to 1. Divide it into 512 equal parts. Label the points with unit fractions.

Step 9: Draw a number line from 0 to 1. Divide it into 1024 equal parts. Label the points with unit fractions.

Step 10: Draw a number line from 0 to 1. Divide it into 2048 equal parts. Label the points with unit fractions.

Step 11: Draw a number line from 0 to 1. Divide it into 4096 equal parts. Label the points with unit fractions.

Step 12: Draw a number line from 0 to 1. Divide it into 8192 equal parts. Label the points with unit fractions.

Step 13: Draw a number line from 0 to 1. Divide it into 16384 equal parts. Label the points with unit fractions.

Step 14: Draw a number line from 0 to 1. Divide it into 32768 equal parts. Label the points with unit fractions.

Step 15: Draw a number line from 0 to 1. Divide it into 65536 equal parts. Label the points with unit fractions.

Step 16: Draw a number line from 0 to 1. Divide it into 131072 equal parts. Label the points with unit fractions.

Step 17: Draw a number line from 0 to 1. Divide it into 262144 equal parts. Label the points with unit fractions.

Step 18: Draw a number line from 0 to 1. Divide it into 524288 equal parts. Label the points with unit fractions.

Step 19: Draw a number line from 0 to 1. Divide it into 1048576 equal parts. Label the points with unit fractions.

Step 20: Draw a number line from 0 to 1. Divide it into 2097152 equal parts. Label the points with unit fractions.

Step 21: Draw a number line from 0 to 1. Divide it into 4194304 equal parts. Label the points with unit fractions.

Step 22: Draw a number line from 0 to 1. Divide it into 8388608 equal parts. Label the points with unit fractions.

Step 23: Draw a number line from 0 to 1. Divide it into 16777216 equal parts. Label the points with unit fractions.

Step 24: Draw a number line from 0 to 1. Divide it into 33554432 equal parts. Label the points with unit fractions.

Step 25: Draw a number line from 0 to 1. Divide it into 67108864 equal parts. Label the points with unit fractions.

Step 26: Draw a number line from 0 to 1. Divide it into 134217728 equal parts. Label the points with unit fractions.

Step 27: Draw a number line from 0 to 1. Divide it into 268435456 equal parts. Label the points with unit fractions.

Step 28: Draw a number line from 0 to 1. Divide it into 536870912 equal parts. Label the points with unit fractions.

Step 29: Draw a number line from 0 to 1. Divide it into 1073741824 equal parts. Label the points with unit fractions.

Step 30: Draw a number line from 0 to 1. Divide it into 2147483648 equal parts. Label the points with unit fractions.

Step 31: Draw a number line from 0 to 1. Divide it into 4294967296 equal parts. Label the points with unit fractions.

Step 32: Draw a number line from 0 to 1. Divide it into 8589934592 equal parts. Label the points with unit fractions.

Step 33: Draw a number line from 0 to 1. Divide it into 17179869184 equal parts. Label the points with unit fractions.

Step 34: Draw a number line from 0 to 1. Divide it into 34359738368 equal parts. Label the points with unit fractions.

Step 35: Draw a number line from 0 to 1. Divide it into 68719476736 equal parts. Label the points with unit fractions.

Step 36: Draw a number line from 0 to 1. Divide it into 137438953472 equal parts. Label the points with unit fractions.

Step 37: Draw a number line from 0 to 1. Divide it into 274877906944 equal parts. Label the points with unit fractions.

Step 38: Draw a number line from 0 to 1. Divide it into 549755813888 equal parts. Label the points with unit fractions.

Step 39: Draw a number line from 0 to 1. Divide it into 1099511627776 equal parts. Label the points with unit fractions.

Step 40: Draw a number line from 0 to 1. Divide it into 2199023255552 equal parts. Label the points with unit fractions.

Step 41: Draw a number line from 0 to 1. Divide it into 4398046511104 equal parts. Label the points with unit fractions.

Step 42: Draw a number line from 0 to 1. Divide it into 8796093022208 equal parts. Label the points with unit fractions.

Step 43: Draw a number line from 0 to 1. Divide it into 17592186044416 equal parts. Label the points with unit fractions.

Step 44: Draw a number line from 0 to 1. Divide it into 35184372088832 equal parts. Label the points with unit fractions.

Step 45: Draw a number line from 0 to 1. Divide it into 70368744177664 equal parts. Label the points with unit fractions.

Step 46: Draw a number line from 0 to 1. Divide it into 140737488355328 equal parts. Label the points with unit fractions.

Step 47: Draw a number line from 0 to 1. Divide it into 281474976710656 equal parts. Label the points with unit fractions.

Step 48: Draw a number line from 0 to 1. Divide it into 562949953421312 equal parts. Label the points with unit fractions.

Step 49: Draw a number line from 0 to 1. Divide it into 1125899906842624 equal parts. Label the points with unit fractions.

Step 50: Draw a number line from 0 to 1. Divide it into 2251799813685248 equal parts. Label the points with unit fractions.

Step 51: Draw a number line from 0 to 1. Divide it into 4503599627370496 equal parts. Label the points with unit fractions.

Step 52: Draw a number line from 0 to 1. Divide it into 9007199254740992 equal parts. Label the points with unit fractions.

Step 53: Draw a number line from 0 to 1. Divide it into 18014398509481984 equal parts. Label the points with unit fractions.

Step 54: Draw a number line from 0 to 1. Divide it into 36028797018963968 equal parts. Label the points with unit fractions.

Step 55: Draw a number line from 0 to 1. Divide it into 72057594037927936 equal parts. Label the points with unit fractions.

Step 56: Draw a number line from 0 to 1. Divide it into 144115188075855872 equal parts. Label the points with unit fractions.

Step 57: Draw a number line from 0 to 1. Divide it into 288230376151711744 equal parts. Label the points with unit fractions.

Step 58: Draw a number line from 0 to 1. Divide it into 576460752303423488 equal parts. Label the points with unit fractions.

Step 59: Draw a number line from 0 to 1. Divide it into 1152921504606846976 equal parts. Label the points with unit fractions.

Step 60: Draw a number line from 0 to 1. Divide it into 2305843009213693952 equal parts. Label the points with unit fractions.

Step 61: Draw a number line from 0 to 1. Divide it into 4611686018427387904 equal parts. Label the points with unit fractions.

Step 62: Draw a number line from 0 to 1. Divide it into 9223372036854775808 equal parts. Label the points with unit fractions.

Step 63: Draw a number line from 0 to 1. Divide it into 18446744073709551616 equal parts. Label the points with unit fractions.

Step 64: Draw a number line from 0 to 1. Divide it into 36893488147419103232 equal parts. Label the points with unit fractions.

Step 65: Draw a number line from 0 to 1. Divide it into 73786976294838206464 equal parts. Label the points with unit fractions.

Step 66: Draw a number line from 0 to 1. Divide it into 147573952589676412928 equal parts. Label the points with unit fractions.

Step 67: Draw a number line from 0 to 1. Divide it into 295147905179352825856 equal parts. Label the points with unit fractions.

Step 68: Draw a number line from 0 to 1. Divide it into 590295810358705651712 equal parts. Label the points with unit fractions.

Step 69: Draw a number line from 0 to 1. Divide it into 1180591620717411303424 equal parts. Label the points with unit fractions.

Step 70: Draw a number line from 0 to 1. Divide it into 2361183241434822606848 equal parts. Label the points with unit fractions.

Step 71: Draw a number line from 0 to 1. Divide it into 4722366482869645213696 equal parts. Label the points with unit fractions.

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Step 153: Draw a number line from 0 to 1. Divide it into 22835963083295358096932575511191922182123945984 equal parts. Label the points with unit fractions.

Step 154: Draw a number line from 0 to 1. Divide it into 45671926166590716193865151022383844364247891968 equal parts. Label the points with unit fractions.

Step 155: Draw a number line from 0 to 1. Divide it into 91343852333181432387730302044767688728495783936 equal parts. Label the points with unit fractions.

Step 156: Draw a number line from 0 to 1. Divide it into 182687704666362864775460604089535377456991567872 equal parts. Label the points with unit fractions.

Step 157: Draw a number line from 0 to 1. Divide it into 365375409332725729550921208179070754913983135744 equal parts. Label the points with unit fractions.

Step 158: Draw a number line from 0 to 1. Divide it into 730750818665451459101842416358141509827966271488 equal parts. Label the points with unit fractions.

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Step 161: Draw a number line from 0 to 1. Divide it into 5846006549323611672814739330865132078623730171904 equal parts. Label the points with unit fractions.

Step 162: Draw a number line from 0 to 1. Divide it into 11692013098647223345629478661730264157247460343808 equal parts. Label the points with unit fractions.

Step 163: Draw a number line from 0 to 1. Divide it into 23384026197294446691258957323460528314494920687616 equal parts. Label the points with unit fractions.

Step 164: Draw a number line from 0 to 1. Divide it into 46768052394588893382517914646921056628989841375232 equal parts. Label the points with unit fractions.

Step 165: Draw a number line from 0 to 1. Divide it into 93536104789177786765035829293842113257979682750464 equal parts. Label the points with unit fractions.

Step 166: Draw a number line from 0 to 1. Divide it into 187072209578355573530071658587684226515959365500928 equal parts. Label the points with unit fractions.

Step 167: Draw a number line from 0 to 1. Divide it into 374144419156711147060143317175368453031918731001856 equal parts. Label the points with unit fractions.

Step 168: Draw a number line from 0 to 1. Divide it into 748288838313422294120286634350736906063837462003712 equal parts. Label the points with unit fractions.

Step 169: Draw a number line from 0 to 1. Divide it into 1496577676626844588240573268701473812127674924007424 equal parts. Label the points with unit fractions.

Step 170: Draw a number line from 0 to 1. Divide it into 2993155353253689176481146537402947624255349848014848 equal parts. Label the points with unit fractions.

Step 171: Draw a number line from 0 to 1. Divide it into 5986310706507378352962293074805895248510699696029696 equal parts. Label the points with unit fractions.

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Step 177: Draw a number line from 0 to 1. Divide it into 383123885216472214589586756787577295904684780545900544 equal parts. Label the points with unit fractions.

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Step 179: Draw a number line from 0 to 1. Divide it into 1532495540865888858358347027150309183618739122183602176 equal parts. Label the points with unit fractions.

Step 180: Draw a number line from 0 to 1. Divide it into 3064991081731777716716694054300618367237478244367204352 equal parts. Label the points with unit fractions.

Step 181: Draw a number line from 0 to 1. Divide it into 6129982163463555433433388108601236734474956488734408704 equal parts. Label the points with unit fractions.

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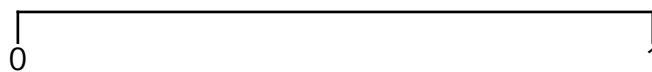
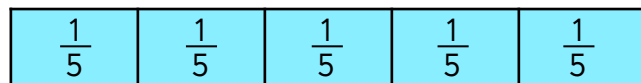
Show $\frac{1}{2}$ on the number line.
Use the bar model to help you.



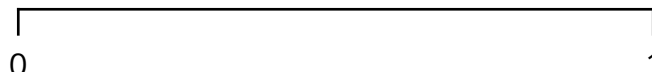
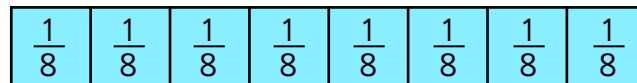
Show $\frac{1}{4}$ on the number line.
Use the bar model to help you.



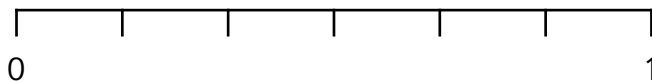
Show $\frac{1}{5}$ on the number line.
Use the bar model to help you.



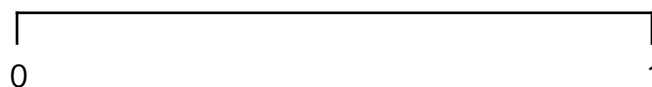
Show $\frac{1}{8}$ on the number line.
Use the bar model to help you.



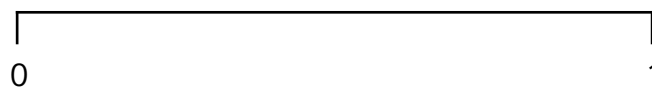
The number line has been divided into equal parts. Label each part correctly.



Divide the number line into quarters.



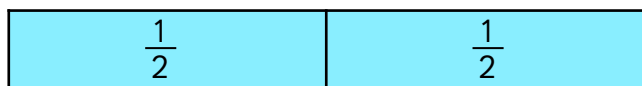
Divide the number line into sevenths.



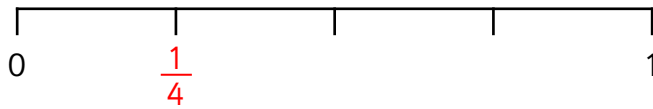
Divide the number line into fifths.
Can you continue the number line up to 2?



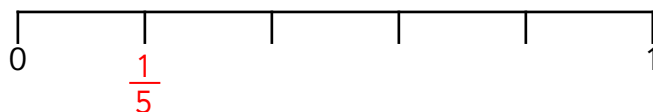
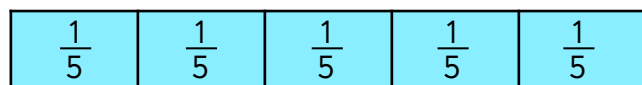
Show $\frac{1}{2}$ on the number line.
Use the bar model to help you.



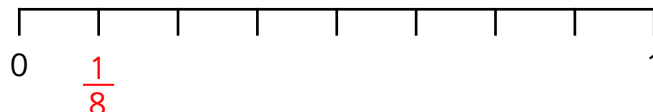
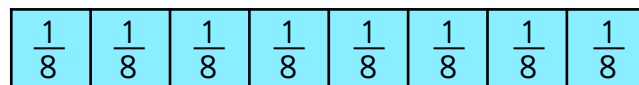
Show $\frac{1}{4}$ on the number line.
Use the bar model to help you.



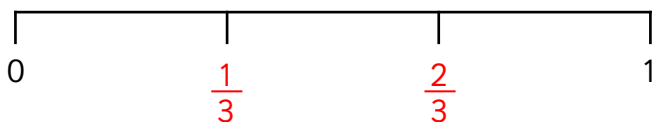
Show $\frac{1}{5}$ on the number line.
Use the bar model to help you.



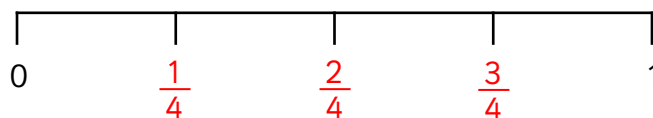
Show $\frac{1}{8}$ on the number line.
Use the bar model to help you.



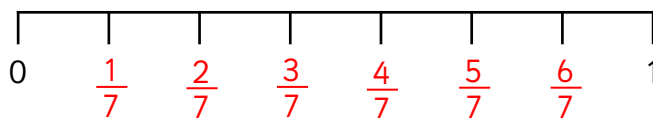
The number line has been divided into equal parts. Label each part correctly.



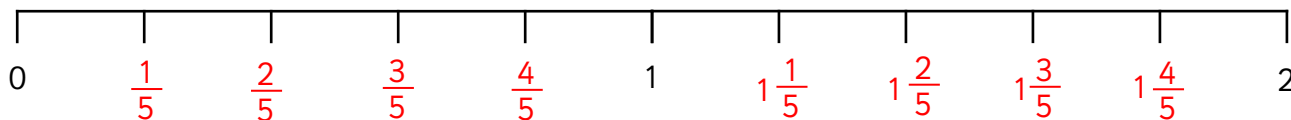
Divide the number line into quarters.



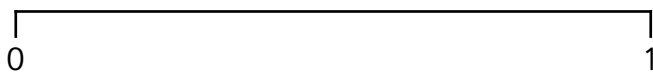
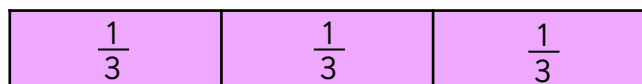
Divide the number line into sevenths.



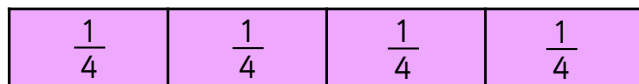
Divide the number line into fifths.
Can you continue the number line up to 2?



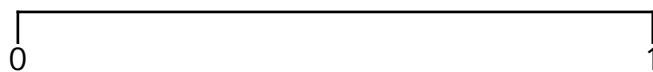
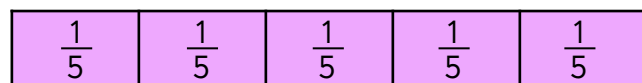
Show $\frac{2}{3}$ on the number line.
Use the bar model to help you.



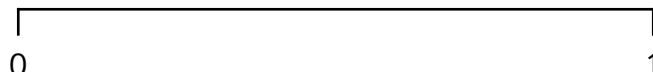
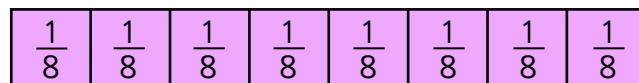
Show $\frac{3}{4}$ on the number line.
Use the bar model to help you.



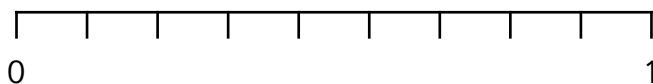
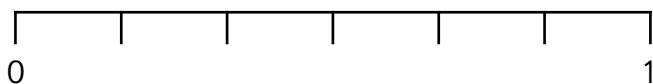
Show $\frac{4}{5}$ on the number line.
Use the bar model to help you.



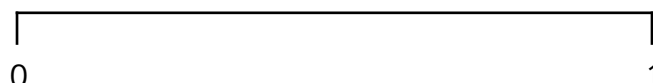
Show $\frac{5}{8}$ on the number line.
Use the bar model to help you.



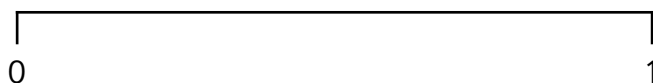
The number line has been divided into equal parts. Label each part correctly.



Divide the number line into tenths.



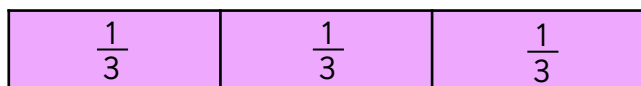
Divide the number line into elevenths.



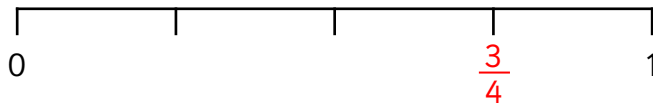
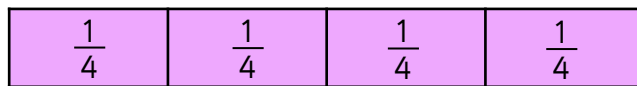
Divide the number line into sevenths.
Can you continue the number line up to 2?



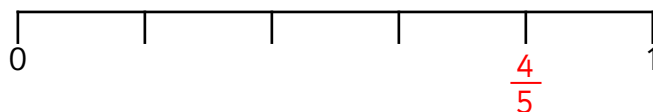
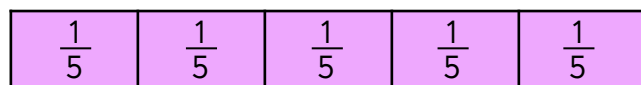
Show $\frac{2}{3}$ on the number line.
Use the bar model to help you.



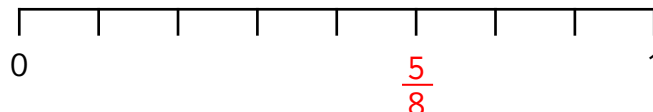
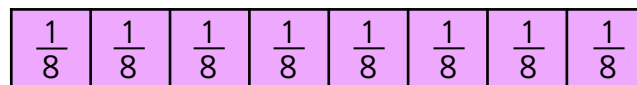
Show $\frac{3}{4}$ on the number line.
Use the bar model to help you.



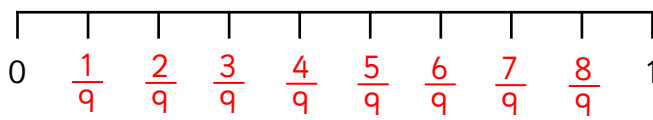
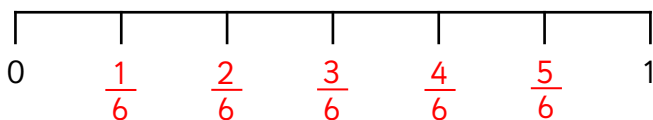
Show $\frac{4}{5}$ on the number line.
Use the bar model to help you.



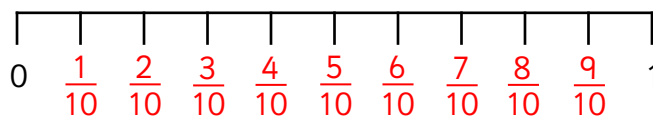
Show $\frac{5}{8}$ on the number line.
Use the bar model to help you.



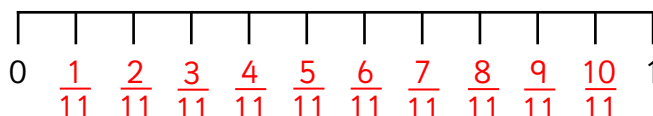
The number line has been divided into equal parts. Label each part correctly.



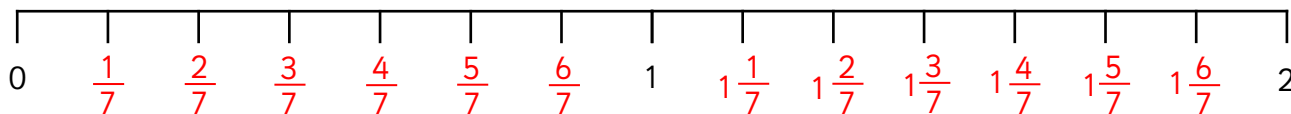
Divide the number line into tenths.



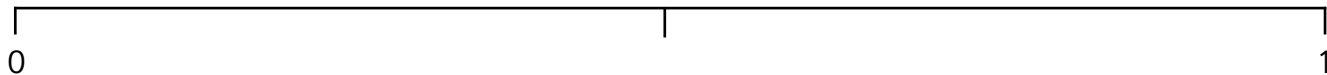
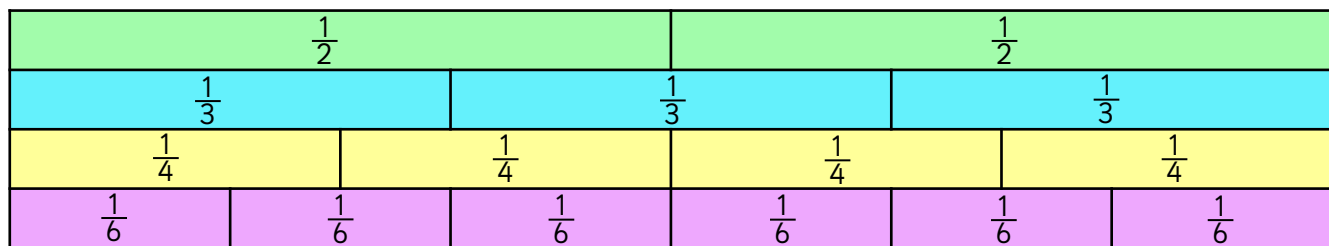
Divide the number line into elevenths.



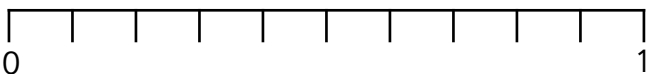
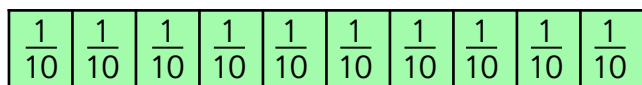
Divide the number line into sevenths.
Can you continue the number line up to 2?



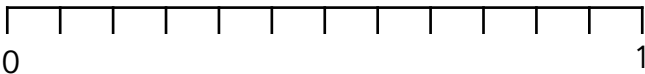
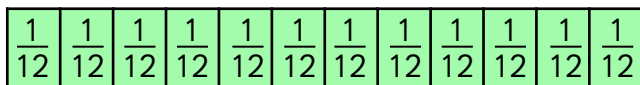
Show $\frac{2}{3}$, $\frac{2}{4}$, $\frac{2}{6}$, $\frac{3}{4}$, $\frac{2}{2}$, $\frac{4}{6}$ on the number line. Use the fraction wall to help you.



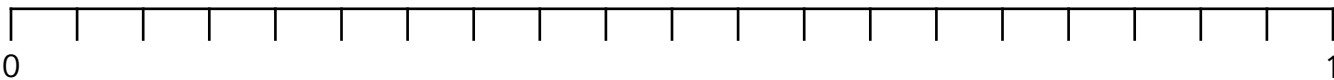
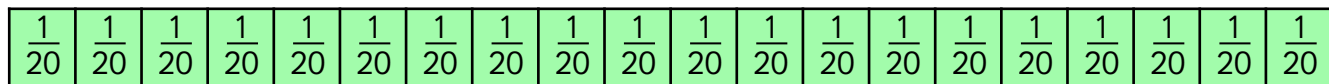
Show $\frac{3}{5}$ on the number line.
Use the bar model to help you.



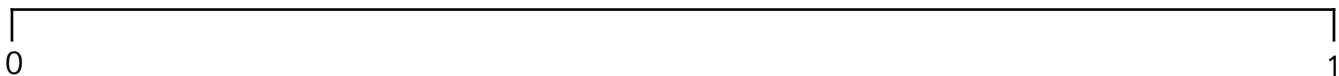
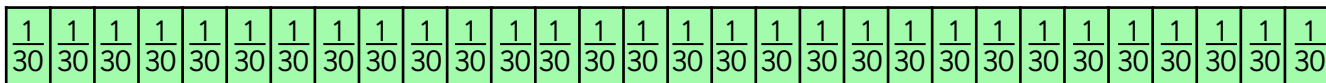
Show $\frac{5}{6}$ on the number line.
Use the bar model to help you.



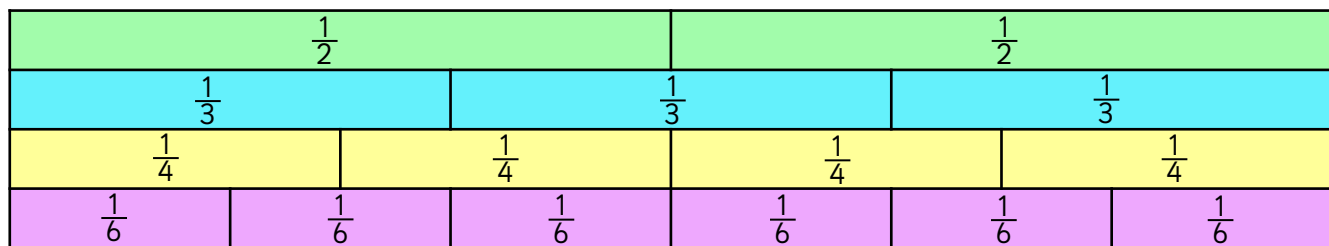
Show $\frac{9}{20}$, $\frac{3}{10}$, $\frac{1}{4}$, $\frac{4}{5}$ on the number line. Use the bar model to help you.



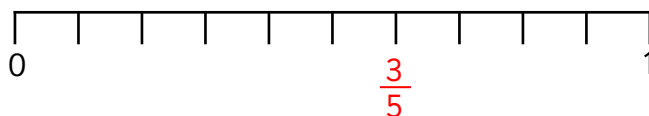
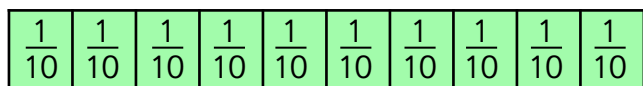
Show $\frac{9}{10}$, $\frac{2}{3}$, $\frac{2}{6}$, $\frac{3}{5}$ on the number line. Use the bar model to help you.



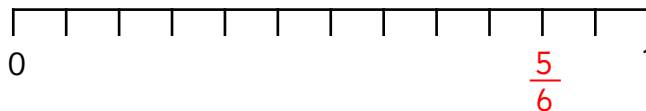
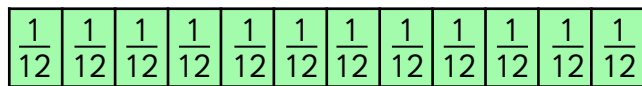
Show $\frac{2}{3}$, $\frac{2}{4}$, $\frac{2}{6}$, $\frac{3}{4}$, $\frac{2}{2}$, $\frac{4}{6}$ on the number line. Use the bar model to help you.



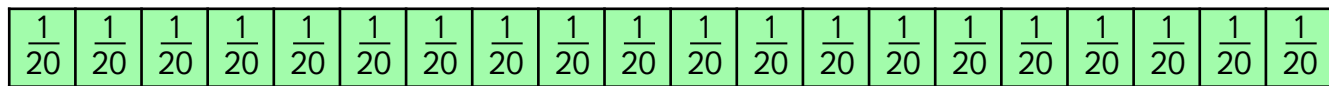
Show $\frac{3}{5}$ on the number line.
Use the bar model to help you.



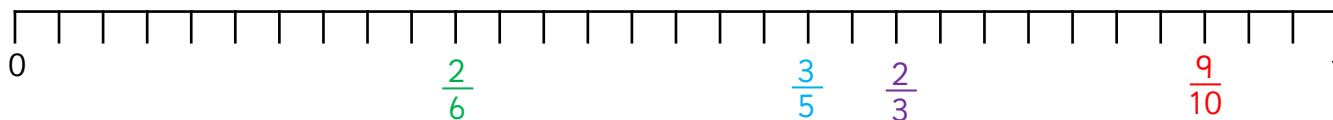
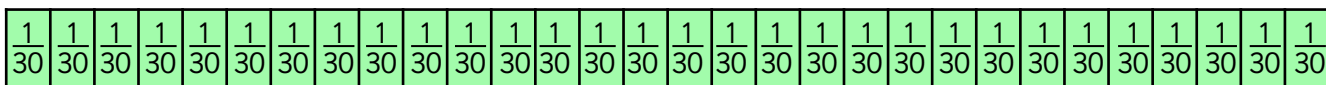
Show $\frac{5}{6}$ on the number line.
Use the bar model to help you.



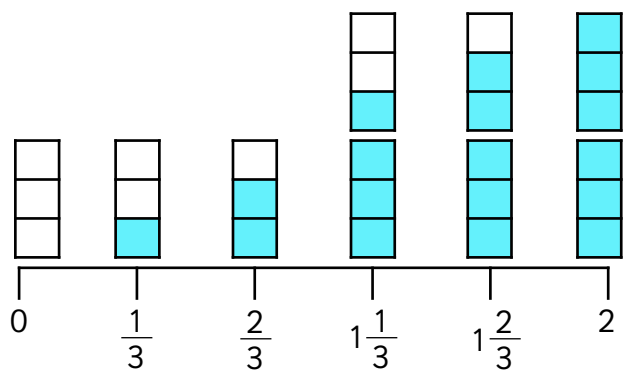
Show $\frac{9}{20}$, $\frac{3}{10}$, $\frac{1}{4}$, $\frac{4}{5}$ on the number line. Use the bar model to help you.



Show $\frac{9}{10}$, $\frac{2}{3}$, $\frac{2}{6}$, $\frac{3}{5}$ on the number line. Use the bar model to help you.



Eva has drawn a number line.



Tommy says it is incorrect.

Do you agree with Tommy?

Explain why.

Can you draw the next three fractions?

masterthecurriculum.co.uk

Alex and Jack are counting up and down in quarters.

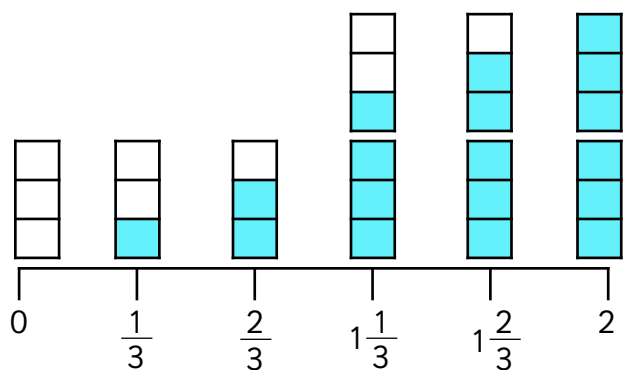
Alex starts at $4\frac{1}{4}$ and counts backwards.

Jack starts at $2\frac{3}{4}$ and counts forwards.

What fraction will they get to at the same time?



Eva has drawn a number line.



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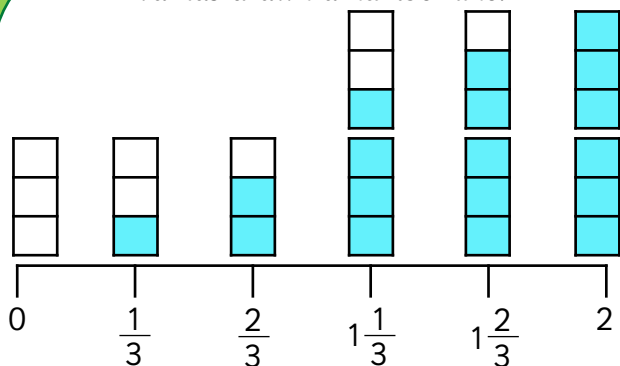
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What fraction will they get to at the same time?



Eva has drawn a number line.

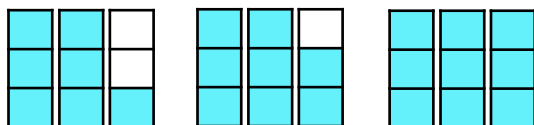


Tommy says it is incorrect.
Do you agree with Tommy?

Explain why.

Can you draw the next three fractions?

Tommy is correct because Eva has missed
1 whole out.



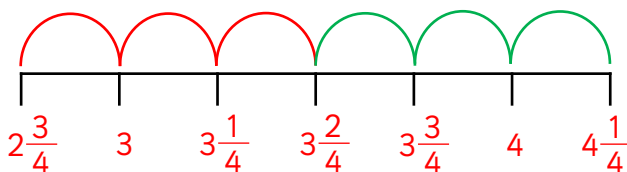
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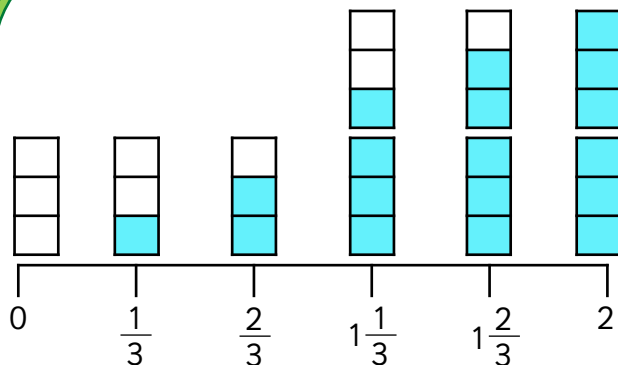


They will reach

$3\frac{2}{4}$.



Eva has drawn a number line.

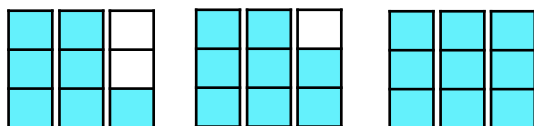


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Can you draw the next three fractions?

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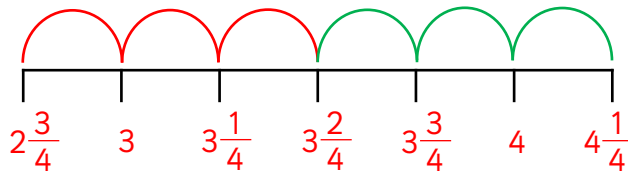
masterthecurriculum.co.uk

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What fraction will they get to
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They will reach

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