10 Soal Dan Pembahasan Kesebangunan Dan Kekongruenan

10 Soal Dan Pembahasan Kesebangunan Dan Kekongruenan 10 Soal dan Pembahasan Kesebangunan dan Kekongruenan Kuasai Konsepnya Raih Nilai Sempurna Hei para penjelajah dunia geometri Pernah merasa bingung dengan konsep kesebangunan dan kekongruenan Tenang kamu nggak sendirian Dua konsep ini memang sering bikin kepala pusing tapi tenang aja kita bakal bahas barengbareng sampai kamu ngerti Siapsiap ngerjain 10 soal latihan dan pembahasan lengkap yang bakal ngebuat kamu jago ngerjain soalsoal kesebangunan dan kekongruenan Oke langsung aja kita masuk ke materinya Memahami Kesebangunan dan Kekongruenan Apa Sih Bedanya Sebelum kita bahas soalsoal penting banget buat memahami konsep dasar kesebangunan dan kekongruenan Kesebangunan adalah hubungan antara dua bangun geometri yang memiliki bentuk sama tetapi ukurannya berbeda Bayangin kamu punya foto kamu di berbagai ukuran kecil sedang dan besar Ketiga foto tersebut punya bentuk yang sama tapi ukurannya beda Nah konsep inilah yang disebut kesebangunan Kekongruenan adalah hubungan antara dua bangun geometri yang memiliki bentuk dan ukuran yang sama persis Bayangin kamu punya dua lembar kertas dengan bentuk dan ukuran yang sama Dua lembar kertas ini saling kongruen karena punya bentuk dan ukuran yang sama Coba perhatikan contoh berikut Kesebangunan Dua segitiga dengan sudutsudut yang sama besar tetapi sisisisinya memiliki perbandingan tertentu Kekongruenan Dua segitiga dengan sudutsudut yang sama besar dan sisisisi yang sama panjang Sekarang kita masuk ke soalsoalnya 2 10 Soal dan Pembahasan Kesebangunan dan Kekongruenan Soal 1 Perhatikan gambar segitiga ABC dan segitiga DEF di bawah ini Gambar segitiga ABC dan DEF dengan sudut A sudut D sudut B sudut E sudut C sudut F Jika AB 6 cm BC 8 cm dan DE 3 cm tentukan panjang EF Pembahasan Segitiga ABC dan segitiga DEF sebangun karena sudutsudut yang bersesuaian

sama besar Karena sebangun maka perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABDE BCEF Substitusikan nilai yang diketahui 63 8EF Sederhanakan 2 8EF Kalikan silang 2 EF 8 Bagi kedua ruas dengan 2 EF 82 Jadi panjang EF 4 cm Soal 2 Perhatikan gambar persegi panjang ABCD dan persegi panjang EFGH di bawah ini Gambar persegi panjang ABCD dan EFGH dengan AB CD 10 cm AD BC 6 cm EF GH 5 cm dan EH FG 3 cm Apakah persegi panjang ABCD dan persegi panjang EFGH sebangun Jelaskan Pembahasan Dua bangun dikatakan sebangun jika perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABCD dan EFGH ABEF 105 2 BCFG 63 2 CDGH 105 2 ADEH 63 2 3 Karena perbandingan sisisisi yang bersesuaian sama maka persegi panjang ABCD dan persegi panjang EFGH sebangun Soal 3 Perhatikan gambar segitiga KLM dan segitiga PQR di bawah ini Gambar segitiga KLM dan PQR dengan sudut K sudut P sudut L sudut Q sudut M sudut R dan KL 8 cm LM 10 cm PQ 4 cm dan QR 5 cm Apakah segitiga KLM dan segitiga PQR kongruen Jelaskan Pembahasan Dua bangun dikatakan kongruen jika memiliki bentuk dan ukuran yang sama Perbandingan sisisisi KLM dan PQR KLPQ 84 2 LMQR 105 2 KMPR 105 2 Karena perbandingan sisisisi yang bersesuaian sama dan sudutsudut yang bersesuaian sama besar maka segitiga KLM dan segitiga PQR kongruen Soal 4 Perhatikan gambar segitiga ABC dan segitiga DEF di bawah ini Gambar segitiga ABC dan DEF dengan sudut A sudut D sudut B sudut E sudut C sudut F dan AB 5 cm BC 7 cm DE 10 cm dan EF 14 cm Apakah segitiga ABC dan segitiga DEF sebangun Jelaskan Pembahasan Dua bangun dikatakan sebangun jika perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABC dan DEF ABDE 510 12 BCEF 714 12 ACDF 714 12 Karena perbandingan sisisisi yang bersesuaian sama dan sudutsudut yang bersesuaian sama besar maka segitiga ABC dan segitiga DEF sebangun 4 Soal 5 Perhatikan gambar segitiga ABC dan segitiga DEF di bawah ini Gambar segitiga ABC dan DEF dengan sudut A sudut D sudut B sudut E sudut C sudut F dan AB 6 cm BC 8 cm DE 9 cm dan EF 12 cm Apakah segitiga ABC dan segitiga DEF sebangun Jelaskan Pembahasan Dua bangun dikatakan sebangun jika perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABC dan DEF ABDE 69 23 BCEF 812 23 ACDF 1015 23 Karena perbandingan sisisisi yang bersesuaian sama dan sudutsudut yang bersesuaian sama besar

maka segitiga ABC dan segitiga DEF sebangun Soal 6 Perhatikan gambar persegi panjang ABCD dan persegi panjang EFGH di bawah ini Gambar persegi panjang ABCD dan EFGH dengan AB CD 12 cm AD BC 8 cm EF GH 6 cm dan EH FG 4 cm Apakah persegi panjang ABCD dan persegi panjang EFGH sebangun Jelaskan Pembahasan Dua bangun dikatakan sebangun jika perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABCD dan EFGH ABEF 126 2 BCFG 84 2 CDGH 126 2 ADEH 84 2 Karena perbandingan sisisisi yang bersesuaian sama maka persegi panjang ABCD dan persegi panjang EFGH sebangun Soal 7 5 Perhatikan gambar segitiga ABC dan segitiga DEF di bawah ini Gambar segitiga ABC dan DEF dengan sudut A sudut D sudut B sudut E sudut C sudut F dan AB 4 cm BC 6 cm DE 8 cm dan EF 12 cm Apakah segitiga ABC dan segitiga DEF sebangun Jelaskan Pembahasan Dua bangun dikatakan sebangun jika perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABC dan DEF ABDE 48 12 BCEF 612 12 ACDF 1020 12 Karena perbandingan sisisisi yang bersesuaian sama dan sudutsudut yang bersesuaian sama besar maka segitiga ABC dan segitiga DEF sebangun Soal 8 Perhatikan gambar segitiga ABC dan segitiga DEF di bawah ini Gambar segitiga ABC dan DEF dengan sudut A sudut D sudut B sudut E sudut C sudut F dan AB 3 cm BC 5 cm DE 6 cm dan EF 10 cm Apakah segitiga ABC dan segitiga DEF sebangun Jelaskan Pembahasan Dua bangun dikatakan sebangun jika perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABC dan DEF ABDE 36 12 BCEF 510 12 ACDF 816 12 Karena perbandingan sisisisi yang bersesuaian sama dan sudutsudut yang bersesuaian sama besar maka segitiga ABC dan segitiga DEF sebangun Soal 9 Perhatikan gambar persegi panjang ABCD dan persegi panjang EFGH di bawah ini Gambar persegi panjang ABCD and EFGH with AB CD 15 cm AD BC 9 cm EF GH 6 75 cm and EH FG 45 cm Apakah persegi panjang ABCD and persegi panjang EFGH sebangun Jelaskan Pembahasan Dua bangun dikatakan sebangun jika perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABCD and EFGH ABEF 1575 2 BCFG 945 2 CDGH 1575 2 ADEH 945 2 Karena perbandingan sisisisi yang bersesuaian sama maka persegi panjang ABCD and persegi panjang EFGH sebangun Soal 10 Perhatikan gambar segitiga ABC dan segitiga DEF di bawah ini Gambar segitiga ABC and DEF with sudut A sudut D sudut B sudut E sudut C sudut F and AB 7 cm BC 9

cm DE 14 cm and EF 18 cm Apakah segitiga ABC and segitiga DEF sebangun Jelaskan Pembahasan Dua bangun dikatakan sebangun jika perbandingan sisisisi yang bersesuaian sama Perbandingan sisisisi ABC and DEF ABDE 714 12 BCEF 918 12 ACDF 1632 12 Karena perbandingan sisisisi yang bersesuaian sama dan sudutsudut yang bersesuaian sama besar maka segitiga ABC and segitiga DEF sebangun Kesimpulan Latihan soal ini bertujuan untuk mengasah kemampuan kamu dalam mengidentifikasi dan membuktikan kesebangunan dan kekongruenan Ingat kunci utama adalah memahami konsep dasar dan menerapkannya dalam menyelesaikan soalsoal Dengan latihan yang rutin kamu pasti bisa menguasai materi kesebangunan dan kekongruenan dengan baik 7 FAQs 1 Apa saja syarat dua bangun dikatakan sebangun Sudutsudut yang bersesuaian sama besar Perbandingan sisisisi yang bersesuaian sama 2 Apa saja syarat dua bangun dikatakan kongruen Bentuk dan ukuran yang sama persis Sudutsudut yang bersesuaian sama besar Sisisisi yang bersesuaian sama panjang 3 Bagaimana cara menentukan perbandingan sisisisi yang bersesuaian Identifikasi sisisisi yang bersesuaian pada kedua bangun Bagi panjang salah satu sisi pada satu bangun dengan panjang sisi yang bersesuaian pada bangun lainnya 4 Apakah semua bangun datar yang memiliki bentuk sama pasti sebangun Tidak hanya bangun datar yang memiliki bentuk sama dan perbandingan sisisisi yang bersesuaian sama yang sebangun 5 Apakah semua bangun datar yang memiliki ukuran sama pasti kongruen Tidak hanya bangun datar yang memiliki bentuk dan ukuran yang sama persis yang kongruen Semoga artikel ini bermanfaat dan membantu kamu dalam memahami konsep kesebangunan dan kekongruenan Selamat belajar dan teruslah berlatih

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